

GENERAL CATALOGUE



# NETWORKING SOLUTIONS

Together, Tomorrow.

Empowering connections, through an end-to-end  
networking range designed for the future.



ORCA





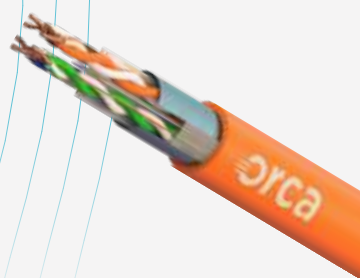
Together, Tomorrow.





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# Orca, at the heart of Networking

Solutions characterized by high manufacturing quality and ease of installation and use.

In the current market of technologies for **Networking** and **Telecommunications**, what makes the difference is the opportunity of having complete solutions with a single brand, product customization, certification of compliance with European and international standards, and the availability of competent and up-to-date technical support.

These are the distinctive features of Orca, a manufacturer

of passive structured cabling solutions and infrastructure systems in various fields which include copper, optical fiber, rack cabinets and switching. Orca's portfolio includes patch panels, patch cords, copper cables in CAT. 5E, CAT. 6, CAT. 6A, and CAT. 7, optical fiber (OM1, OM2, OM3, OM4, and OM5), media converters, and everything related to the passive system of a LAN network.

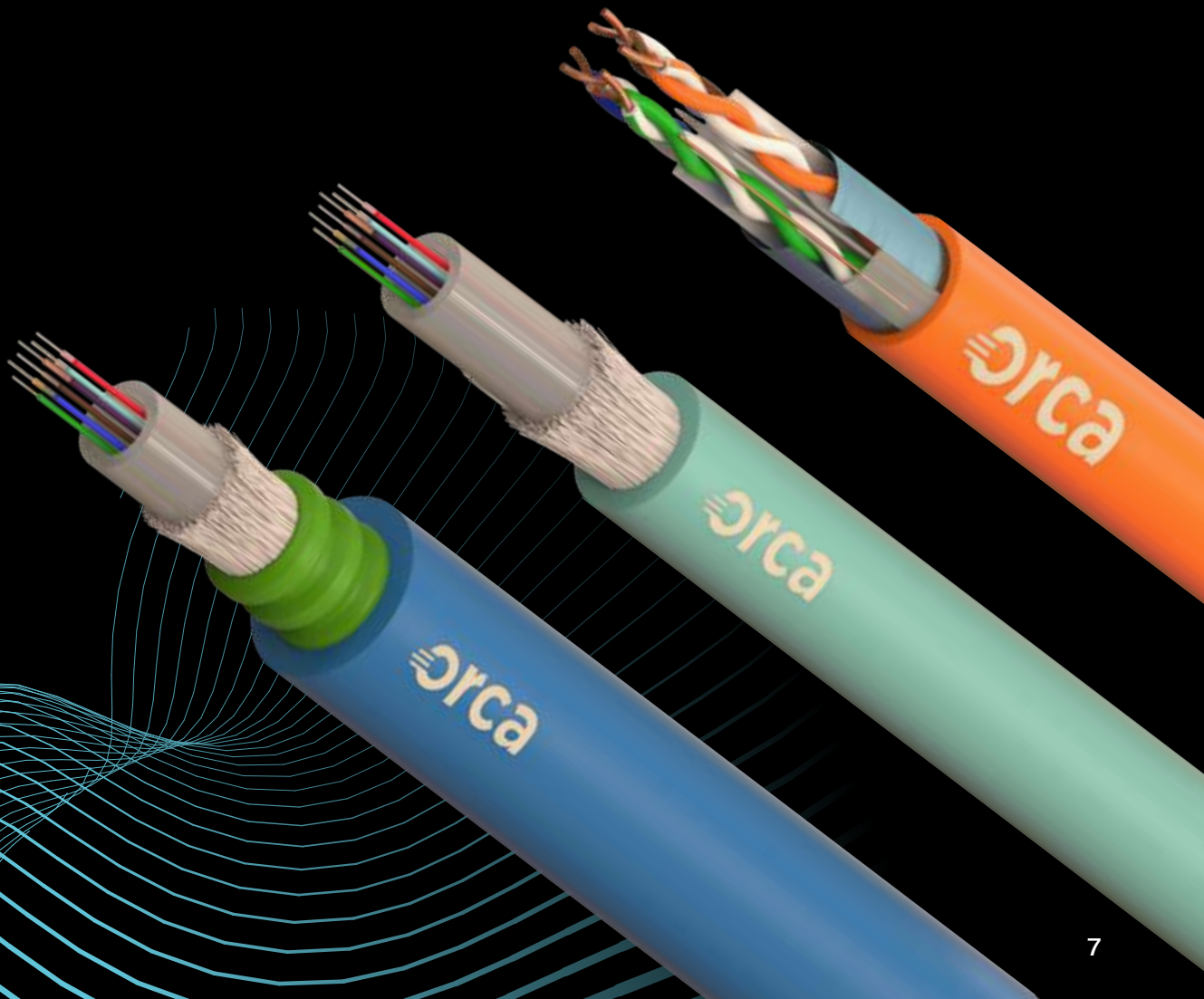


# QUALITY AND CERTIFICATIONS

Our company is **ISO 9001-2015 certified**. We create solutions that are 100% compliant with international standards and meet the requirements of the Construction Products Regulation (CPR) in the field of data, audio, and video transmission.

All Orca-branded copper and fiber optic cables are 100% compliant, including with the **CPR**.

Furthermore, with its products, our company meets all the standards for producing and marketing telecommunications solutions in the EMEA market.



# Become an Orca Partner



If you are an installer, you can apply to become an Orca Networking Partner and your application will be evaluated based on several criteria. You can acquire Partner status if your company is engaged in projects or tenders that meet Orca's quality standards and those of your target market.

To become part of the program you will first need to take a theoretical and practical course on the complete range of copper and fiber solutions.

You will also need to spend time **training your employees** to stay abreast of Orca's latest product technologies and solutions.

## BENEFITS OF THE PARTNER PROGRAM

1

Assistance in all after-sales phases

2

Access to Orca's complete catalog

3

Cooperation, mutual trust and common goals



# WHAT DOES THE PROGRAM GUARANTEE YOU?

The advantages of becoming our certified partner are different.  
Specifically, you will have access to:



DEDICATED TECHNICAL  
SUPPORT



COMMERCIAL SUPPORT  
ON SITE



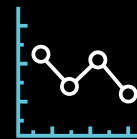
CONTINUOUS DIRECT  
CONTACT WITH THE TEAM



PRIVILEGED ACCESS TO  
ORCA'S NETWORKING  
TECHNICAL RESOURCES



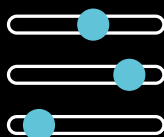
HELP IN CREATING CASE  
HISTORIES FOR YOUR  
CUSTOMERS



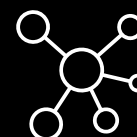
ACCESS TO LEADS  
GENERATED BY VENDOR  
DEMAND CREATION



SUPPORT IN DEVELOPING  
COURSES FOR YOUR TEAM OR  
CLIENTS, IN THE CLASSROOM  
OR ONLINE



SUPPORT TO CREATE  
EVENTS FOR YOU AND  
YOUR CUSTOMERS



ORCA'S NETWORKING  
MATERIALS TO USE IN YOUR  
PROMOTIONAL ACTIVITIES



OUR ORCA LIFETIME  
WARRANTY ON  
INSTALLED SYSTEMS

**DO YOU WANT TO BE PART OF OUR  
PARTNER PROGRAM?**

Find out all the details on [orca.it/partner](https://orca.it/partner)

# More security with Orca Lifetime warranty



## A confirmation of the reliability of Orca's solutions

All Orca products meet high quality standards, but to give something more to those who choose our solutions we have created Orca Lifetime.

Orca Lifetime is the warranty that covers the manufacturing defects of individual components for a "lifetime" (based on the life span of the laying cable), in the event that these affect the functionality of the system, and ensures compliance of the products with the minimum requirements by ISO / IEC 11801,

ANSI / TIA / EIA-568-A and EN 50173 standards for copper and optical fiber.

A confirmation of the reliability of the Orca brand solutions, dedicated and reserved for the end users of our systems who are looking for a warranty, today and in the future, making use of our certified Partners' experience. We like to call ourselves a "big family" because we share the same values and goals.



# HOW DOES ORCA LIFETIME WARRANTY WORK?

Orca prides itself in respecting the guarantee towards the person or company requesting the certificate. Specifically, our Orca Lifetime warranty will be applied in the system that the partner has installed only and exclusively if:

1. New Orca products in original packaging were used for permanent links.
2. The system has been designed as indicated in the system specifications.
3. The products are installed in a workmanlike manner and in accordance with the approved project.
4. The system is tested in the correct manner and with the aid of certified instrumentation only.
5. Within 60 days of installation, the documents and the results of the system test are sent to Orca's office, which will examine the documentation and register the warranty.
6. Regular maintenance of the systems is carried out.

Once the documents have been examined, Orca will send the partner an e-mail notification with the Warranty certificate relating to the installed system.

If the partner is no longer in

business, the end user can directly contact Orca's office to select a new partner who can guarantee continuity.

## DISCOVER THE ADVANTAGES OF ORCA LIFETIME

Visit our website [orca.it/orcalifetime](https://orca.it/orcalifetime)

# Compliance and standards

Orca Networking is an Italian brand focused on structured cabling solutions, designed to meet the needs of the most varied installation opportunities in the telecommunications market. ORCA Networking offers a complete range of copper and optical fiber components, essential for the construction of network infrastructures in all segments: enterprise, data centers, SMEs, residential,

carrier, and public administration. All Orca Networking components are manufactured in compliance with **international standards** that regulate applications in the field of data transmission, audio, video, video surveillance, and integrated systems, thus being able to comply with European directives, such as the ROHS 2011/65 / EU related to the content of dangerous substances.



# REACTION TO FIRE

The focus on compliance with rules and standards is ensured, in particular on the production of optical fiber and copper cables, with the CPR (Construction Products Regulation (EU) 35/2011). The European Construction Products Directive applies to any cable usable for fixed installation in buildings and is subject to performance requirements in terms of reaction and fire resistance.

Reaction to Fire BS EN ISO 1716		FSC Comment	Additional Classifications for Euroclasses B to D		
A <sub>ca</sub>	Does not contribute to the fire	It will be almost impossible for a cable to meet Class Aca and due to availability, they should only be specified with extreme caution.			
Reaction to Fire BS EN 50399			Smoke Production BS EN 50399/ BS EN 61034-2	Flaming Droplets BS EN 50399	Smoke Acidity BS EN 60754-2
B1 <sub>ca</sub>	Minimum contribution to the fire	It's very unlikely that commonly-used cables will be classified to Class B1ca.	<b>s1a:</b> s1 + transmittance >=80% (BS EN 61034-2) <b>s1b:</b> s1 + transmittance >=60% <80% (BS EN 61034-2) <b>s1:</b> Low production & slow propagation of smoke <b>s2:</b> Intermediate production & propagation of smoke <b>s3:</b> None of the above	<b>d0:</b> No fall of droplets of flaming particles timed for 1200 seconds <b>d1:</b> Fall of droplets or flaming particles that persist for less than 10 seconds, timed for 1200 seconds <b>d2:</b> None of the above	<b>a1:</b> Very low acidity (conductivity <2.5 μ S/mm & pH >4.3) <b>a2:</b> Low acidity (conductivity <10 μ/Smm & pH >4.3) <b>a3:</b> None of the above
B2 <sub>ca</sub>	Combustible, low flame spread & heat release contribution to the fire	Similar to Class Cca although a lower acceptable heat release rate and burn measurement. In practice, this is likely to be the highest class cables will meet.			
C <sub>ca</sub>	Combustible, moderate flame spread & heat release	A more rigorous test than Class Dca this is widely accepted accross Europe as the "go to" classification, but aware, many cables do not meet Class Cca though availability is improving.			
D <sub>ca</sub>	Combustible, moderate flame spread & high levels of heat generated	This classification has relatively little use or acceptance within specifying/contracting organisations. This is because no large scale fire growth is measured.			
Reaction to Fire BS EN 60332-1-2			Classes A to E have to be tested by an independent authorised laboratory. Most cables will fall into classes B2ca to Eca. For a cable to meet Aca, B1ca, B2ca or Cca, there also needs to be regular on-going factory audits.		
E <sub>ca</sub>	Combustible, limited fire spread of less than 425mm	A basic test for vertical flame propagation for a single insulated wire or cable using a 1-kW pre-mixed flame. Note: this test does not measure heat release, toxic fumes or smoke.			
F <sub>ca</sub>	Combustible, fire spread of more than 425mm	Cables classifies to Class Fca may have high levels of flammability de to the materials they are made of. This does not mean that the cable can not be used, it is more likely to be used in external.			

# CONSTRUCTION PRODUCTS REGULATION

The Construction Products Regulation involves all the components (materials, artifacts, systems, etc.) that are made to become a permanent part of construction works (buildings and civil engineering works). These products must meet the requirements and performance related to the seven essential requirements for construction work:

1. mechanical strength and stability;
2. safety in case of fire;
3. hygiene, safety and care for the environment;
4. safety in use;
5. protection against noise;
6. energy saving;
7. sustainable use of natural resources in the construction of buildings.

	Class	Test methods	Classification criteria	Additional classification
<div> <div>non-flammable</div> <div>easily flammable</div> </div>	<b>A<sub>ca</sub></b>	EN ISO 1716	$PCS \leq 2,0 \text{ MJ/kg}$	
	<b>B1<sub>ca</sub></b>	EN 50399 (30 kW Burner) and	$FS \leq 1,75 \text{ m}$ and $THR_{1200s} \leq 10 \text{ MJ}$ ; and Peak HRR $\leq 20 \text{ kW}$ ; and FIGRA $\leq 120 \text{ W s}^1$	Smoke production and flaming droplets/particles and acidity
		EN 60332-1-2	$H \leq 425 \text{ mm}$	
	<b>B2<sub>ca</sub></b>	EN 50399 (20,5 kW Burner)	$FS \leq 1,25 \text{ m}$ ; and $THR_{200s} \leq 10 \text{ MJ}$ ; and Peak HRR $\leq 30 \text{ kW}$ ; and FIGRA $\leq 150 \text{ W s}^1$	Smoke production and flaming droplets/particles and acidity
		EN 60332-1-2	$H \leq 425 \text{ mm}$	
	<b>C<sub>ca</sub></b>	EN 50399 (20,5 kW Burner) and	$FS \leq 2,0 \text{ m}$ and $THR_{200s} \leq 30 \text{ MJ}$ ; and Peak HRR $\leq 60 \text{ kW}$ and FIGRA $\leq 300 \text{ W s}^1$	Smoke production and flaming droplets/particles and acidity
		EN 60332-1-2	$H \leq 425 \text{ mm}$	
	<b>D<sub>ca</sub></b>	EN 50399 (20,5 kW Burner) and	$THR_{200s} \leq 70 \text{ MJ}$ ; and Peak HRR $\leq 400 \text{ kW}$ and FIGRA $\leq 1300 \text{ W s}^1$	Smoke production and flaming droplets/particles and acidity
		EN 60332-1-2	$H \leq 425 \text{ mm}$	
	<b>E<sub>ca</sub></b>	EN 60332-1-2	$H \leq 425 \text{ mm}$	
	<b>F<sub>ca</sub></b>	Does not fulfil class E <sub>ca</sub>		

# WHAT DOES THE DECLARATION OF PERFORMANCE PROVIDE?

The key concept of Regulation 305/2011, compared to the CPD (Construction Products Directive) 89/106 / EEC, is the Declaration of Performance (DoP), which:

- is mandatory for all products covered by a harmonized standard;
- must contain information on the intended use;
- must contain the essential characteristics relevant to the intended use;
- must include the performance of at least one of the essential characteristics;
- holds the manufacturer responsible for the declared performances.

The CPR, Regulation 305/2011, has modified the conditions of access to the market and, since July 2013, construction products covered by harmonized standards (and therefore subject to the obligation of CE marking) or subjected to the European Technical Assessment (ETA) can only be placed on the market if:

- the manufacturer has drawn up the Declaration of Performance (DoP) for the product;
- the products for which the DoP has been drawn up are CE marked;
- the consistency of the performance of the product has been verified and certified.



# ICONS LEGEND

## CABLES CATEGORY



## SHELDING



## SHEATH CONSTRUCTION



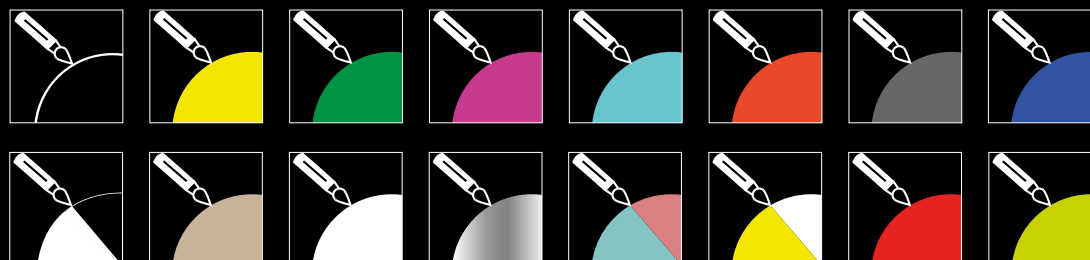
## AMERICAN WIRE GAUGE



## REACTION TO FIRE



## COLOURS OF THE EXTERNAL SHEATS



## FIBER OPTIC CATEGORY



## INSTALLATION



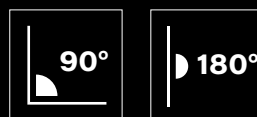
## RODENT PROTECTION LEVEL



## TOOL



## INSERTION ANGLE



## PACKAGING



## SIZE



## CUTTING SERVICE









# Copper Systems

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**22** CATEGORY 8

---

**23** CATEGORY 7

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**24** CATEGORY 6A

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**38** CATEGORY 6

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**58** CATEGORY 5E

---

**69** TELEPHONE

---

**73** CATEGORY 3

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**76** PLUGS

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**80** TOOLS

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# Copper systems

## A single partner for all copper wiring needs

Orca Networking offers a full range of copper structured cabling solutions in the main Categories and Performance classes, following the most common standards, such as ISO / IEC, ANSI / TIA, and EN, 100% compliant with CPR reaction to fire requirements. Replacing the wiring at the heart of a building plant can represent an

extremely complex operation. That is why longevity is a basic value. To provide the correct security to end users, Orca offers its "lifetime" warranty program for installations performed by Orca Partners, with a view to not only investing in a "present" of reliability a wiring structured cabling system can offer, but in its future too.

# SOLUTIONS RANGE

What do end-to-end ORCA's structured cabling solutions offer and guarantee to their partners?

**CAT  
5E****CATEGORY 5E**

ORCA components in category 5E are studied and designed to manage in a safe, efficient and scalable way the transmission of data on an end-to-end channel.

**CAT  
6****CATEGORY 6 AND 6A**

ORCA components in categories 6 and 6A are studied and designed to manage in a safe, efficient and scalable way the transmission of data on an end-to-end channel with the transmission capacity of high-speed voice and data between central units and peripherals for frequencies up to 250 mhz. An ideal solution for LAN applications such as 100 Base-T4, 100 Base-TX, 155 Mbps ATM, Token Ring, ISDN, ETHERNET supporting applications such as Fast Ethernet (100 BASE-T), Gigabit Ethernet (1000 BASE-T), 10 Gigabit Ethernet (10GBASE-T) and future generations.

**CAT  
6A****CAT  
7****CATEGORY 7 and 8**

The Cat.7 and 8 S/FTP shielded cable consists of 4 pairs of shielded individually-foiled twisted pairs, and supports 10/40 Gigabit transmission line standards. Used in Ethernet network applications, it reaches a frequency of from 600 to 2000 MHz. This ORCA cable is offered in class CPR B2ca for installation in high-risk environments.

**CAT  
8**



# Copper cable CAT 8 S/FTP

22AWG LSZH - B2ca  
(s1a,d1,a1)

## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T; 10GBase-T, 40GBase-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+; IEEE 802.3bt: POE++

## Construction and features

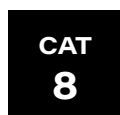
Material	LSZH - CPR B2ca-s1a,d1,a1
Diameter	Nominal: 8,4 ±0.40mm
Colour	Magenta (RAL-4010)

## Standard compliance and approvals

ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0), EN 50173-1:2018 / EN 50173-2:2018  
IEC61156-9:2016 Category 8.1, EN 50288-10-1

## Features and performance

Operating Temperature: -25/70°C



## CODE

## DESCRIPTION

212218-01

COPPER CABLE S/FTP Cat.8 AWG 22, 4cp, LSZH CPR Class B2ca (s1a,d1,a1) - Magenta (reel 500)

# Copper cable CAT 7 S/FTP

**23AWG LSZH - B2ca  
(s1a,d1,a1)**

## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, 10Gb, IEEE 802.5 16 MB; ISDN; TPDDI; ATM

## Construction and features

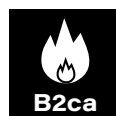
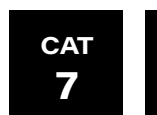
Material	LSZH - CPR B2ca-s1a,d1,a1
Diameter	Nominal: 7,80 ±0.40mm
Colour	Magenta (RAL-4010)

## Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0), ISO/IEC 11801-2:2017(Ed. 1.0), EN50173-1:2018; EN 50173-2:2018, IEC61156-5:2012 (Ed.2.1), EN 50288-4-1:2013, EN 50288-10-1:2012, , EN 60332-1-2 (Fire Performance), EN61034-2 (Smoke Density), EN60754-2 (Halogen Free), EN 50399, EN 50575 (Reaction to fire)

## Features and performance

Operating Temperature: -25/70°C



## CODE

## DESCRIPTION

212216-01

COPPER CABLE S/FTP Cat.7 AWG 23, 4cp, LSZH  
CPR Class B2ca (s1a,d1,a1) - Magenta (reel 500)

# Copper cable CAT 6A UTP

**23AWG LSZH – B2ca  
(s1a,d1,a1)**

## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, 10Gb, IEEE 802.5 16MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+; conforming to European regulation "CPR" EN 50575

## Construction and features

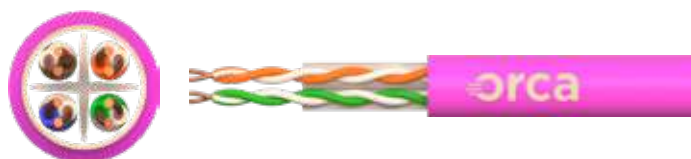
Material	LSZH – CPR B2ca-s1a,d1,a1
Diameter	Nominal: 7,0 ±0.40mm
Colour	Magenta (RAL-4010)

## Standard compliance and approvals

ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0) EN 50173-1:2018 / EN 50173-2:2018  
IEC 61156-5:2020(Ed. 3.0);EN50288-11-1:2012 TIA-568.2-D:2018

## Electrical features and performance

Operating Temperature: -25/70°C



CODE	DESCRIPTION
212215-02	COPPER CABLE CAT 6A U/UTP AWG 23, LSZH - B2ca (s1a, d1, a1) - Magenta (reel500)

## RELATED PRODUCTS

### Patch panel

- 570129-24

### Keystone

- 233124-00

### Plug

- 233412-01

### Patch cord series

- 224130-XX



# Copper cable CAT 6A UTP

**23AWG LSZH – Dca  
(s2,d2,a1)**

## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002; POE; IEEE 802.3at: POE+



## Construction and features

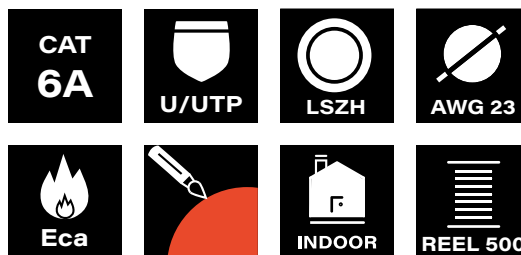
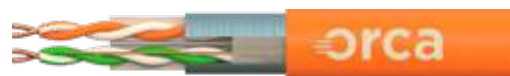
Material	LSZH – CPR Dca-s2,d2,a1
Diameter	Nominal: 7.4 ±0.20 mm
Colour	Orange (RAL-2009)

## Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0) / ISO/IEC 11801-2:2017(Ed. 1.0); EN 60332-1 (Fire Performance), EN50173-1:2018 / EN 50173-2:2018; EN61034 (Smoke Density), IEC61156-5:2012 (Ed.2.1); EN60754 (Halogen Free), EN50288-10-1:2012; EN 50399, EN 50575 (Reaction to fire), ANSI/TIA-568.2-D:2018

## Electrical features and performance

Operating Temperature: -25/70°C



## CODE

## DESCRIPTION

212215-22

COPPER CABLE CAT 6A U/UTP "Alien Next Proof" LSZH - Dca - Orange

## RELATED PRODUCTS

Patch panel

• 570129-24

Keystone

• 233124-00

Plug

• 233412-01

Patch cord series

• 224130-XX



# Copper cable CAT 6A U/FTP

**23AWG LSZH - B2ca  
(s1a,d1,a1)**

## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal),  
802.3i 10 BaseT, 802.3u/802.3y 100 base T, 802.3ab 1000 Base-T, 802.3an  
10GbaseT IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

## Construction and features

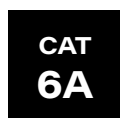
Material	LSZH – CPR B2ca-s1a,d1,a1
Diameter	Nominal: 7.60 ±0.40mm
Colour	Magenta (RAL-4010)

## Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0) , ISO/IEC 11801-2:2017(Ed. 1.0),  
EN50173-1:2011, EN 50173-2:2007 including amendment  
A1:2010, IEC61156-5:2012 (Ed.2.1), EN50288-10-1:2012, ANSI/  
TIA-568-C.2:2009, EN 60332-1 (Fire Performance), EN61034  
(Smoke Density), EN60754 (Halogen Free), EN 50399, EN 50575  
(Reaction to fire)

## Electrical features and performance

Operating Temperature: -25/70°C



CODE	DESCRIPTION
212214-22	COPPER CABLE CAT 6A U/FTP LSZH - B2ca - Magenta

## RELATED PRODUCTS

### Patch panel

- 273124-24

### Keystone

- 233224-00

### Plug

- 233312-01

### Patch cord series

- 224230-XX

# Copper Keystone RJ45 CAT 6A UTP

## Toolless



### Application

10 Gigabit and Gigabit Ethernet, 10/100/1000 BASETx, 4/16 Mbps Token Ring, 155 Mbps ATM, 100 Mbps TPPMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice. Universal wiring labels permit termination to either T568A or T568B wiring patterns.

### Description

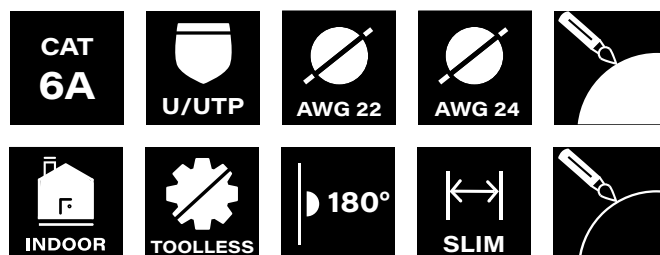
ORCA® Category 6A Series jacks exceed TIA/EIA-568-B.2 requirements for Category 6A component performance. The ORCA Category 6A System complies with all of the performance requirements for current and proposed applications. Unshielded Modular jacks are unkeyed, 4-pair and meet the Category 6A performance requirements. Modular jacks shall be terminated using 110-style pc board connectors, colour coded for both T568A and T568B wiring. Each jack shall be provided with a bendlimiting strain relief.

### Material specification

Dimension: 19,83 (H) x 16,80 (W) x 30,8 (D)

### Performance

Insertion force: 30 N max. (IEC 60603-7-5)  
Dielectrics strength: 1000 V RMS at 60Hz for 1 minute  
Insulation resistance: 500 MΩ Min.



CODE	DESCRIPTION
233124-00-K12	Keystone Jack RJ45 CAT 6 UTP - White
233124-01-K12	Keystone Jack RJ45 CAT 6 UTP - Black

### RELATED PRODUCTS

#### Cables

- 212215-22

#### Patchpanel

- 570122-24
- 570123-24
- 570125-24

#### Patch cord series

- 224130-XX

# Copper Keystone RJ45 CAT 6A FTP

## Toolless



### Application

10 Gigabit and Gigabit Ethernet, 10/100/1000 BASETx, 4/16 Mbps Token Ring, 155 Mbps ATM, 100 Mbps TPPMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice. Universal wiring labels permit termination to either T568A or T568B wiring patterns.

### Description

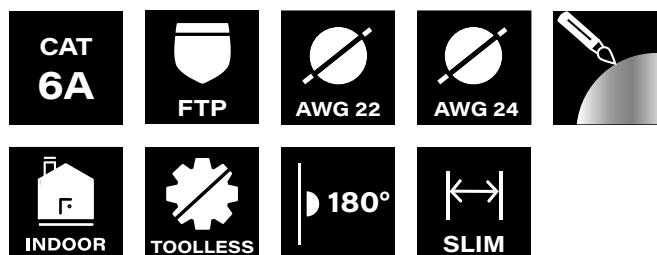
ORCA Category 6A Series jacks exceed TIA/EIA-568-B.2 requirements for Category 6A component performance. The ORCA Category 6A System complies with all of the performance requirements for current and proposed applications. Shielded Modular jacks are unkeyed, 4-pair and meet the Category 6A performance requirements. Modular jacks shall be terminated using 110-style pc board connectors, colour coded for both T568A and T568B wiring. Each jack shall be provided with a bendlimiting strain relief.

### Material specification

Dimension: 19,33 (H) x 16,70 (W) x 38,8 (D)

### Performance

Dielectrics strength: 1DC 1000 V, AC 750 V, no breakdown within 1 minute  
Insulation resistance: 500 MΩ Min.



CODE	DESCRIPTION
233224-00-K12	Keystone Jack Cat 6A FTP – Toolless – Slim version

### RELATED PRODUCTS

#### Cables

- 212216-01

#### Patchpanel

- 570125-24

#### Patch cord series

- 224230-XX



# Copper Patch Panel CAT 6A - UTP



## Application

Category 6A Unload Patch Panels provide excellent performance for high speed LANs from 10 Gb to Gigabit Ethernet 100BASETx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice applications. 1U 19" standard format is ideal for rack installation.

## Material specification

Operation Temperature: -20 to 68 °C

## Compliance

Cat. 5E, 6, 6 A, UTP

## Standard compliance and approvals

ANSI/TIA-568-C, ISO/IEC 11801, RoHS Directive 2011/65/EU compliant



CODE	DESCRIPTION
570129-00	Patch Panel UTP, 1U, 24P angled – unloaded

## RELATED PRODUCTS

### Cable

- 212215-22

### Patch cord series

- 224130-YX



# Copper Patch Panel CAT 6A - FTP



## Application

Category 6A Density Patch Panels provide excellent performance for high speed LANs from 10 Gb to Gigabit Ethernet 100BASETx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice applications. 1U 19" standard format is ideal for rack installation.

## Description

High quality components and innovative IDC connection techniques with rear utilities colour coded for correct connection of FTP cable, grounded rear cable holder system. Front panel with numerical and icona tab identification.

## Material specification

Operation Temperature: -20 to 68 °C

## Compliance

Wiring Printing: T568A & T568B wiring Printing on IDC. Numbered with label icon

## Standard compliance and approvals

ANSI/TIA-568-C, ISO/IEC 11801, RoHS Directive 2011/65/EU compliant



CODE	DESCRIPTION
273124-24	Patch Panel CAT. 6A FTP, 1U, 24P Loaded

## RELATED PRODUCTS

### Cable

- 212214-22

### Patch cord series

- 223240-YX

### Tool

- 269000-00

# Copper patch cord CAT 6A U/UTP LSZH

## Application

Unshielded Horizontal distribution and Backbone Cabling, IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant

## Material Specification

Jacket LSZH

Braid Nom.O.D. 6.4 ±0.20 mm

## Electrical Features and Performance

Operating Temperature: -10/+60°C



LENGTH (m)	CODE	DESCRIPTION
1	224130-01	Copper Patch Cord Cat.6A UTP LSZH – White - L.1m
2	224130-02	Copper Patch Cord Cat.6A UTP LSZH – White - L.2m
3	224130-03	Copper Patch Cord Cat.6A UTP LSZH – White - L.3m
5	224130-05	Copper Patch Cord Cat.6A UTP LSZH – White - L.5m
10	224130-10	Copper Patch Cord Cat.6A UTP LSZH – White - L.10m

# Colored copper patch cord CAT 6A U/UTP

## AWG26

### Application

Unshielded horizontal distribution and Backbone Cabling, IEEE 802.3an:  
10Base-T; 100Base-TX; 1000Base-T, 10Gb; IEEE 802.5 4/16 MB; ISDN;  
ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant

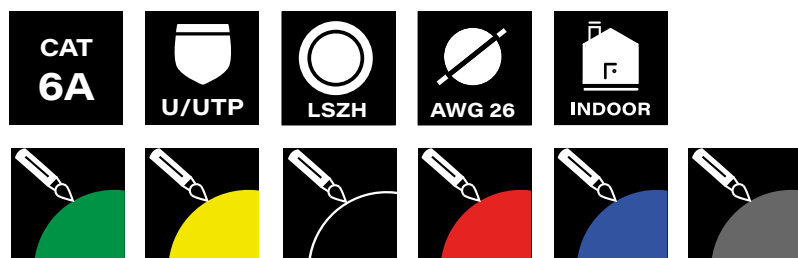


### Material Specification

Jacket LSZH  
Nom.O.D: 5,8 ±0.20 mm

### Electrical Features and Performance

ISO/IEC 118014-1 class EA performance



CODE:	DESCRIPTION	Y	X	LENGHT
2241Z0-YX	Copper Patch Cord Cat.6A UTP AWG26 - LSZH	0	.25	0,25 m
		A	0	0,5 m
		0	1	1 m
		A	1	1,5 m
		0	2	2 m
		0	3	3 m
		0	5	5 m
		1	0	10 m

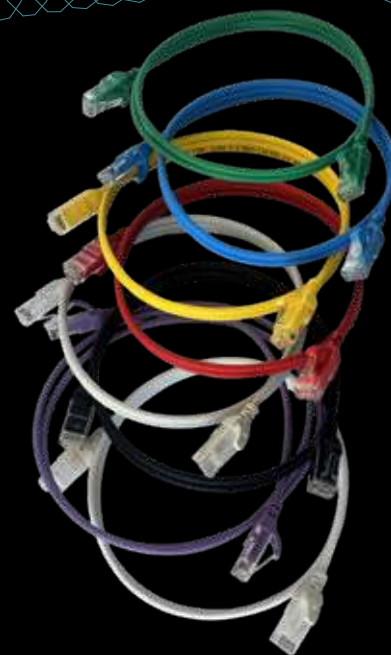
Colours: "Z" 1 = nero; 4(GC) = grigio chiaro; 5 = viola; 6 = blu; 7 = rosso; 8 = giallo; 9 = verde

# Slim Colored copper patch cord CAT 6A U/UTP

## AWG28

### Application

Unshielded horizontal distribution and Backbone Cabling, IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, 10Gb; IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant

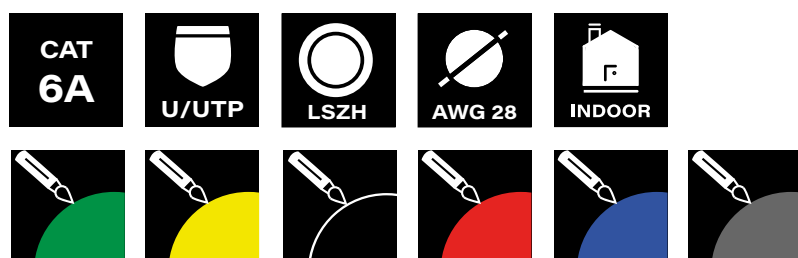


### Material Specification

Jacket LSZH  
Nom.O.D: 4,6 ±0.20 mm

### Electrical Features and Performance

ISO/IEC 118014-1 class EA performance



CODE:	DESCRIPTION	Y	X	LENGHT
2241Z2-YX	SLIM Copper Patch Cord Cat.6A UTP	0	.25	0,25 m
		A	0	0,5 m
		0	1	1 m
		A	1	1,5 m
		0	2	2 m
		0	3	3 m
		0	5	5 m
		1	0	10 m

Colours: "Z" 1 = nero; 4(GC) = grigio chiaro; 5 = viola; 6 = blu; 7 = rosso; 8 = giallo; 9 = verde



# Copper patch cord CAT 6A S/FTP LSZH



## Application

Shielded Horizontal distribution and Backbone Cabling, IEEE 802.3an:  
10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 4/16 MB; ISDN; ADSL;  
100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant

## Material Specification

Jacket LSZH  
Braid Nom.O.D. 6.0 ±0.20 mm

## Electrical Features and Performance

Operating Temperature: -10/+60°C



LENGTH (m)	CODE	DESCRIPTION
1	224230-01	Copper Patch Cord Cat.6A S/FTP LSZH – White - L.1m
2	224230-02	Copper Patch Cord Cat.6A S/FTP LSZH – White - L.2m
3	224230-03	Copper Patch Cord Cat.6A S/FTP LSZH – White - L.3m
5	224230-05	Copper Patch Cord Cat.6A S/FTP LSZH – White - L.5m
10	224230-10	Copper Patch Cord Cat.6A S/FTP LSZH – White - L.10m

# Colored copper patch cord CAT 6A S/FTP

## AWG26

### Application

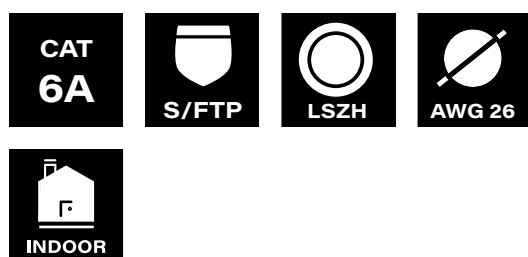
Shielded Horizontal distribution and Backbone Cabling, IEEE 802.3an; 10Base-T; 100Base-TX; 1000Base-T, 10 Gigabit, IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant.

### Material Specification

Jacket LSZH  
Nom.O.D: 5,8 ±0.30 mm

### Electrical Features and Performance

ISO/IEC 118014-1 class EA performance



CODE:	DESCRIPTION	Y	X	LENGHT
2243Z0-YX	Copper Patch Cord Cat.6A S/FTP AWG26 LSZH	0	.3	0,30 m
		A	0	0,5 m
		0	1	1 m
		A	1	1,5 m
		0	2	2 m
		0	3	3 m
		0	5	5 m
		1	0	10 m
		1	5	15 m

Colours: "Z" 1 = balck; 3 = white; 4 = lite gray; 5 = violet; 6 = blue; 7 = red; 8 = yellow; 9 = green; 0 = pink; 2 = orange

# O'Clip slim copper patch cord CAT. 6A U/UTP

## AWG28

### Application

Unshielded Horizontal distribution and Backbone Cabling, IEEE 802.3an; 10Base-T; 100Base-TX; 1000Base-T, 10Gb, IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant.



### Special Feature:

CAT.6A slim copper patchcord equipped with innovative interchangeable colored clips on both ends of snagproof boot. Easily identify the ends of the cable without having to disconnect it, greatly improving aesthetics and efficiency in troubleshooting and maintaining complex cabling systems

### Material Specification

**Jacket** LSZH  
**Nom.O.D:** 3,6 ±0,20 mm

### Electrical Features and Performance

ISO/IEC 11801, EN 50173-1, ISO 11801 class Ea



CODE:	DESCRIPTION
224112C-0A	Copper Patch Cord O'Clip Cat.6A U/UTP AWG28 - LSZH Black - L. 0,5 m
224112C-01	Copper Patch Cord O'Clip Cat.6A U/UTP AWG28 - LSZH Black - L. 1 m
224112C-A1	Copper Patch Cord O'Clip Cat.6A U/UTP AWG28 - LSZH Black - L. 1,5 m
224112C-02	Copper Patch Cord O'Clip Cat.6A U/UTP AWG28 - LSZH Black - L. 2 m
224112C-03	Copper Patch Cord O'Clip Cat.6A U/UTP AWG28 - LSZH Black - L. 3 m
224112C-05	Copper Patch Cord O'Clip Cat.6A U/UTP AWG28 - LSZH Black - L. 5 m
224112C-07	Copper Patch Cord O'Clip Cat.6A U/UTP AWG28 - LSZH Black - L. 7 m
224112C-7.5	Copper Patch Cord O'Clip Cat.6A U/UTP AWG28 - LSZH Black - L. 7,5 m
224112C-10	Copper Patch Cord O'Clip Cat.6A U/UTP AWG28 - LSZH Black - L. 10 m
224112C-15	Copper Patch Cord O'Clip Cat.6A U/UTP AWG28 - LSZH Black - L. 15 m
224000-(**)	Colored O'Clip for Copper Patch Cord Cat.6A - 50pc
(**) BK=Black; WH=White; YE=Yellow; RD=Red; GR=Green; BL=Blue; GY=Gray; PK=Pink; VI=Violet; OR=Orange	



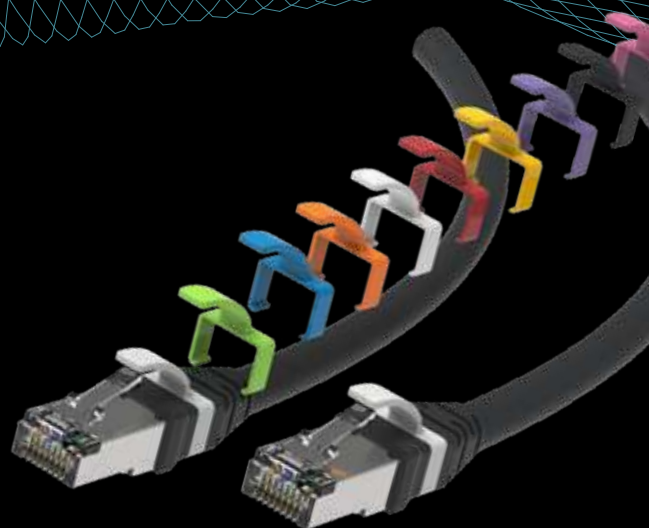
# O'clip copper patch cord

## CAT. 6A S/FTP

### AWG26

#### Application

Unshielded Horizontal distribution and Backbone Cabling, IEEE 802.3an; 10Base-T; 100Base-TX; 1000Base-T, 10Gb, IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant.



#### Special Feature:

CAT.6A slim copper patchcord equipped with innovative interchangeable colored clips on both ends of snagproof boot. Easily identify the ends of the cable without having to disconnect it, greatly improving aesthetics and efficiency in troubleshooting and maintaining complex cabling systems

#### Material Specification

**Jacket** LSZH  
**Nom.O.D:** 6,0 ±0,20 mm

#### Electrical Features and Performance

ISO/IEC 11801, EN 50173-1, ISO 11801 class Ea



CODE:	DESCRIPTION
224310C-0A	Copper Patch Cord O'Clip Cat.6A S/FTP AWG26 - LSZH Black - L. 0,5 m
224310C-01	Copper Patch Cord O'Clip Cat.6A S/FTP AWG26 - LSZH Black - L. 1 m
224310C-A1	Copper Patch Cord O'Clip Cat.6A S/FTP AWG26 - LSZH Black - L. 1,5 m
224310C-02	Copper Patch Cord O'Clip Cat.6A S/FTP AWG26 - LSZH Black - L. 2 m
224310C-03	Copper Patch Cord O'Clip Cat.6A S/FTP AWG26 - LSZH Black - L. 3 m
224310C-05	Copper Patch Cord O'Clip Cat.6A S/FTP AWG26 - LSZH Black - L. 5 m
224310C-07	Copper Patch Cord O'Clip Cat.6A S/FTP AWG26 - LSZH Black - L. 7 m
224310C-7.5	Copper Patch Cord O'Clip Cat.6A S/FTP AWG26 - LSZH Black - L. 7,5 m
224310C-10	Copper Patch Cord O'Clip Cat.6A S/FTP AWG26 - LSZH Black - L. 10 m
224310C-15	Copper Patch Cord O'Clip Cat.6A S/FTP AWG26 - LSZH Black - L. 15 m
224000-(**)	Colored O'Clip for Copper Patch Cord Cat.6A - 50pc

(\*\*) BK=Black; WH=White; YE=Yellow; RD=Red; GR=Green; BL=Blue; GY=Gray; PK=Pink; VI=Violet; OR=Orange



# Copper cable CAT 6 U/UTP

## 24AWG LSZH - Eca

### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+; Confirming to European regulation "CPR" EN 50575

### Construction and features

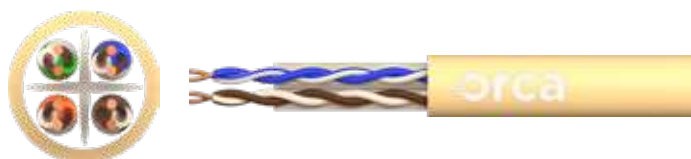
Material	LSZH - CPR Eca
Diameter	Nominal: 5.60 ±0.20 mm
Colour	White Cream (RAL-9001)

### Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0), ISO/IEC 11801-2:2017(Ed. 1.0), EN50173-1:2018, EN 50173-2:2018, IEC61156-5:2012 (Ed.2.1), EN50288-6-1:2013, ANSI/TIA-568.2-D:2018, EN 60332-1-2 (Fire Performance), EN61034-2 (Smoke Density), EN60754-2 (Halogen Free), EN 50575 (Reaction to fire)

### Electrical features and performance

Operating Temperature: -25/70°C



CODE	DESCRIPTION
212013-62	COPPER CABLE CAT 6 U/UTP LSZH - Eca - Cream

### RELATED PRODUCTS

#### Patch panel

- 273120-24
- 570122-24
- 570123-24

#### Keystone

- 233120-00
- 233130-00
- 233140-00

#### Plug

- 233112-01

#### Patch cord series

- 2231X0-XX
- 223142-XX

# Copper cable CAT 6 UTP

**24AWG LSZH - B2ca  
(s1a,d1,a1)**

## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal),  
IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB;  
ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

## Construction and features

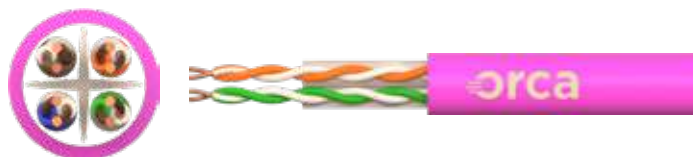
Material	LSZH – CPR B2ca-s1a,d1,a1
Diameter	Nominal: 6.2 ±0.40 mm
Colour	Magenta (RAL-4010)

## Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0) / ISO/IEC 11801-2:2017(Ed. 1.0);  
EN 60332-1-2 (Fire Performance) EN50173-1:2018 / EN 50173-2:2018;  
EN61034-2 (Smoke Density); IEC61156-5:2012 (Ed.2.1);  
EN60754-2 (Halogen Free); EN50288-6-1:2013; EN 50399,  
EN 50575 (Reaction to fire) ANSI/TIA-568-D:2018

## Electrical features and performance

Operating Temperature:-20/70°C



CODE	DESCRIPTION
212013-52	COPPER CABLE CAT 6 U/UTP LSZH - B2ca - Magenta

## RELATED PRODUCTS

### Patch panel

- 273120-24
- 570122-24
- 570123-24

### Keystone

- 233120-00
- 233130-00
- 233140-00

### Plug

- 233112-01

### Patch cord series

- 2231X0-XX
- 223142-XX

# Copper cable CAT 6 F/UTP

## 24AWG LSZH - Dca

### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal),  
IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB;  
ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

### Construction and features

Material	LSZH – CPR Dca
Diameter	Nominal: 7.20 ±0.20 mm
Colour	White (RAL-9016)

### Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0) / ISO/IEC 11801-2:2017(Ed. 1.0);  
EN 60332-1-2 (Fire Performance); EN50173-1:2018 / EN 50173-  
2:2018 EN61034-2 (Smoke Density); IEC61156-5:2012 (Ed.2.1);  
EN60754-2 (Halogen Free); EN50288-5-1:2013; EN 50399 -  
EN 50575 (Reaction to fire); ANSI/TIA-568.2-D:2018

### Electrical features and performance

Operating Temperature: -25/70°C



CODE	DESCRIPTION
212213-12	COPPER CABLE CAT 6 F/UTP LSZH - Dca - White

### RELATED PRODUCTS

#### Patch panel

- 273220-24

#### Keystone

- 233220-00
- 235220-00

#### Plug

- 233212-01

#### Patch cord series

- 223240-XX



# Copper cable CAT 6 F/UTP

**24AWG LSZH - B2ca  
(s1,d1,a1)**

## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002; POE; IEEE 802.3at: POE+

## Construction and features

Material	LSZH – CPR B2ca-s1,d1,a1
Diameter	Nominal: 7.6 ±0.40 mm
Colour	Magenta (RAL-4010)

## Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0), ISO/IEC 11801-2:2017(Ed. 1.0), EN50173-1:2018, EN 50173-2:2018, IEC61156-5:2012 (Ed.2.1), EN50288-5-1:2013, TIA-568.2-D:2018, EN 60332-1-2 (Fire Performance), EN61034-2 (Smoke Density), EN60754-2 (Halogen Free), EN 50399, EN 50575 (Reaction to fire)

## Electrical features and performance

Operating Temperature: -25/70°C



CODE	DESCRIPTION
212213-22	COPPER CABLE CAT 6 F/UTP LSZH - B2ca - Magenta

## RELATED PRODUCTS

### Patch panel

- 273220-24

### Keystone

- 233220-00
- 235220-00

### Plug

- 233212-01

### Patch cord series

- 223240-XX



# Copper cable CAT 6 UTP

## Flex

### Application

Tertiary (Horizontal), specific for patch cord, IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

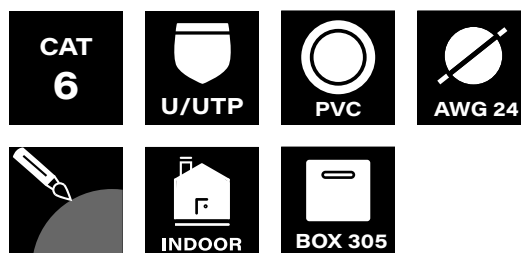


### Construction and features

Material	Flame retardant PVC
Diameter	Nominal: 6.4 mm
Colour	Gray

### Standard compliance and approvals

ANSI/TIA-568-C.2 Cat. 6, ISO/IEC 2nd Edition 11801 Class E, CENELEC EN 501773-1, CENELEC EN 50288-6-2, IEC 61156-6 for patch cable, IEC 60332-1-2 Flame Retardancy verification, RoHS compliance for the European Union issued Directive 2002/95/EC, UL/cUL Listed, ETL/3P Certified ANSI/TIA-568-C.2 Category 6 Testing Safety/Performance



### CODE

### DESCRIPTION

211013-07	COPPER CABLE CAT.6 UTP FLEX - Grey
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### RELATED PRODUCTS

#### Patch panel

- 273120-24
- 570122-24
- 570123-24

#### Keystone

- 233120-00
- 233130-00
- 233140-00

#### Plug

- 233112-01
- 233112-01

# Outdoor copper cable CAT 6 U/UTP

## 24 AWG - Double Sheath PVC/PE - Fca

### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

### Construction and features

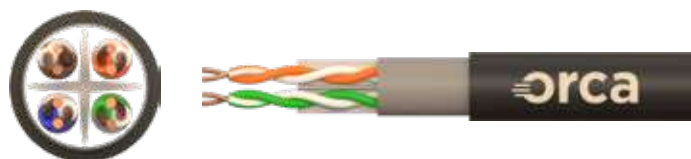
Material	Inner: PVC	Outer: PE – CPR Fca
Diameter	Inner: 5.80 ±0.20 mm	Outer: 7.40 ±0.25 mm
Colour	Inner: Gray (RAL-7044)	Outer: Black

### Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0), ISO/IEC 11801-2:2017(Ed. 1.0), EN 50173-1:2018, EN 50173-2:2018, IEC 61156-5:2012 (Ed.2.1), EN 50288, TIA-568.2-D:2018, CEI UNEL 36762 (C-4 - U<sub>0</sub>=400V)

### Electrical features and performance

Operating Temperature: PVC+PE: -40/70°C, PVC only: -20/70°C



CODE	DESCRIPTION
211213-04	Copper Cable CAT 6 U/UTP PVC/PE – Fca - Black

### RELATED PRODUCTS

#### Patch panel

- 273120-24 Pag
- 570122-24
- 570123-24

#### Keystone

- 233120-00
- 233130-00
- 233140-00

#### Plug

- 233112-01
- 233412-01

#### Patch cord series

- 2231X0-XX
- 223142-XX

# Outdoor copper cable CAT 6 U/UTP

## 24 AWG - Single Sheath PE - Fca

### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

### Construction and features

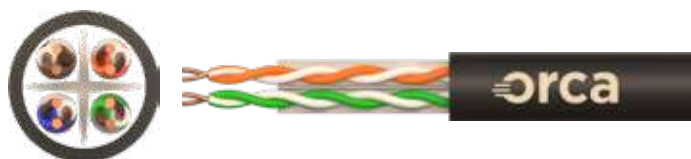
**Material** PE – CPR Fca  
**Diameter** Nominal: 5.60 ±0.20 mm  
**Colour** Black

### Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0), ISO/IEC 11801-2:2017(Ed. 1.0), EN 50173-1:2018, EN 50173-2:2018, IEC 61156-5:2012 (Ed.2.1), EN 50288-6-1:2013, TIA-568.2-D:2018, CEI UNEL 36762 (C-4 - U<sub>0</sub>=400V)

### Electrical features and performance

Operating Temperature: -40/70°C



CODE	DESCRIPTION
211213-05	COPPER CABLE CAT 6 U/UTP PE – Fca - Black

### RELATED PRODUCTS

#### Patch panel

- 273120-24
- 570122-24
- 570123-24

#### Keystone

- 233120-00
- 233130-00

#### Plug

- 233412-01

#### Patch cord series

- 2231X0-XX
- 223142-XX



# Outdoor copper cable CAT 6 F/UTP

## 24 AWG - Double Sheath PVC/PE - Fca

### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

### Construction and features

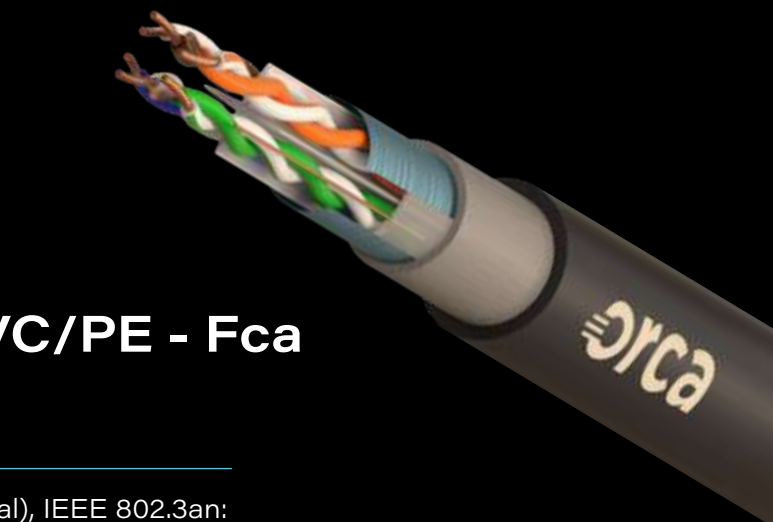
Material	Inner: PVC	Outer: PE – CPR Fca
Diameter	Inner: 7.20 ±0.20 mm	Outer: 8.80 ±0.25 mm
Colour	Inner: Gray (RAL-7044)	Outer: Black

### Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0), ISO/IEC 11801-2:2017(Ed. 1.0), EN 50173-1:2018, EN 50173-2:2018, IEC 61156-5:2012 (Ed.2.1), EN 50288, TIA-568.2-D:2018, CEI UNEL 36762 (C-4 - U<sub>0</sub>=400V)

### Electrical features and performance

Operating Temperature: PVC+PE: -40/70°C, PVC only: -20/70°C



### CODE

### DESCRIPTION

211313-04

COPPER CABLE CAT 6 F/UTP PE – Fca - Black

### RELATED PRODUCTS

#### Patch panel

- 273220-24
- 233220-00

#### Keystone

- 233120-00
- 233130-00

#### Patch cord series

- 223240-XX



# Outdoor copper cable CAT 6 F/UTP

## 24 AWG - Single Sheath PE - Fca

### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

### Construction and features

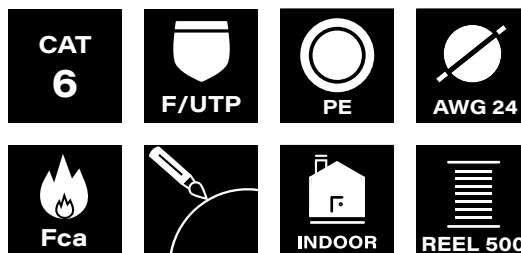
Material	PE – CPR Fca
Diameter	Nominal: 7.20 ±0.20 mm
Colour	Black

### Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0), ISO/IEC 11801-2:2017(Ed. 1.0), EN 50173-1:2018, EN 50173-2:2018, IEC 61156-5:2012 (Ed.2.1), EN 50288-5-1:2013, IA-568.2-D:2018, CEI UNEL 36762 (C-4 - U<sub>0</sub>=400V)

### Electrical features and performance

Operating Temperature: -40/70°C



CODE	DESCRIPTION
211313-00	COPPER CABLE CAT 6 F/UTP PE – Fca - Black

### RELATED PRODUCTS

#### Patch panel

- 273220-24
- 233220-00

#### Keystone

- 233120-00
- 233130-00

#### Patch cord series

- 223240-XX

# Copper Keystone RJ45 CAT 6 UTP

## Punch 110

### Application

Gigabit Ethernet, 100BASETx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice.



### Description

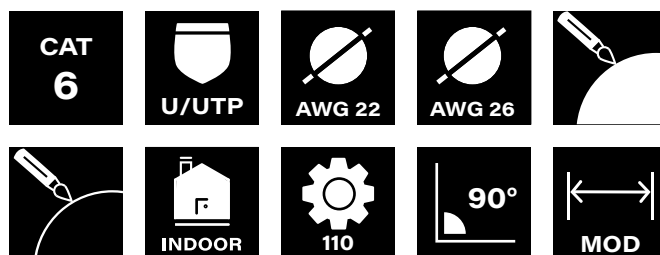
Category 6 Series jacks exceed TIA/EIA-568-B.2 requirements for Category 6 component performance. The ORCA Category 6 System complies with all of the performance requirements for current and proposed applications. These slim profile jacks are compatible with ORCA faceplates. Universal wiring labels permit termination to either T568A or T568B wiring patterns. Cables may be dressed at either 180° or 90° for added flexibility at various outlet locations. The strain relief may also be used to reduce stress on cable at point of termination.

### Material specification

Dimension: 22,8 (H) x 18,2 (W) x 32 (D)

### Performance

Dielectrics strength: 750 Vac RMS 60Hz, 1 min  
Insulation resistance: 1000 MΩ Min.



CODE	DESCRIPTION
233120-00	Keystone Jack RJ45 CAT 6 UTP - Black
233130-00	Keystone Jack RJ45 CAT 6 UTP - White

# Copper Keystone CAT 6 UTP

## Toolless

### Application

Gigabit Ethernet, 100BASETx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice.



### Description

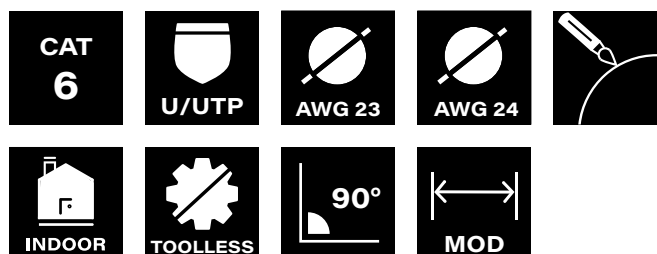
Category 6 Series jacks exceed TIA/EIA-568-A and TIA/EIA-568-B requirements for Category 6 component performance. The Category 6 System complies with all of the performance requirements for current and proposed applications. These standard profile jacks are compatible with international faceplates. Universal wiring labels permit termination to either T568A or T568B wiring patterns. Cables may be dressed at 90 degree or added flexibility at various outlet locations. The strain relief may also be used to reduce stress on cable at point of termination.

### Material specification

Dimension: 16,1 (H) x 19,0 (W) x 34,3 (D)

### Performance

Insertion force: 20 N max. (IEC 60603-7-4)  
Dielectrics strength: 1000 V RMS at 60Hz for 1 minute  
Insulation resistance: 500 MΩ Min.



### CODE

### DESCRIPTION

CODE	DESCRIPTION
233140-00	Insert RJ45 CAT 6 UTP – Toolless - Black

# Copper Keystone RJ45 CAT 6 UTP

## Toolless

### Application

ORCA® Category 6 Series jacks exceed TIA/EIA-568-B.2 requirements for Category 6 component performance. The ORCA Category 6 System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet, 10/100/1000 BASE Tx, 4/16 Mbps Token Ring, 155 Mbps ATM, 100 Mbps TPPMD, ISDN, analogue (broadband, baseband) and digital video and analogue and digital (VoIP) voice. Universal wiring labels permit termination to either T568A or T568B wiring patterns.



### Description

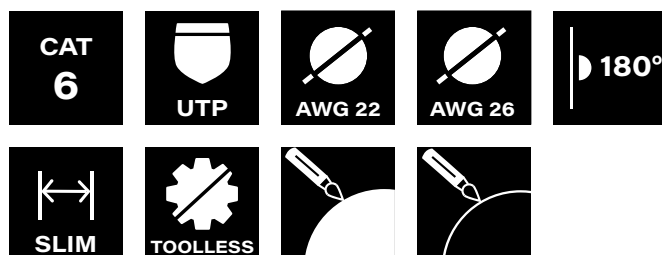
Unshielded Modular jacks are unkeyed, 4-pair and meet the Category 6 performance requirements. Modular jacks shall be terminated using colour coded for both T568A and T568B wiring. Each jack shall be provided with a bend-limiting strain relief.

### Material specification

20,2 (H) x 16,4 (W) x 34,0 (D)  
Wire: 22-26 AWG solid conductor

### Performance

Withstand voltage: DC 1000 V, AC 750 V,  
no breakdown within 1 minute  
Insulation resistance:  $\geq 500 \text{ M}\Omega$  100V/DC/1Min  
Working temperature:  $-20^{\circ}\text{C} \sim 75^{\circ}\text{C}$  @10~90%RH



### Ordering Information code

233134-00-K12      Keystone toolless black 6A UTP

233124-00-K12      Keystone toolless white 6A UTP

in confezione da 12 pezzi

### Patch Panel:

OC-PP6-570125-24      Patch panel 24 ports, unload, UTP/FTP Cat. 6/6A with removable cable management, cable clips.



# Copper Keystone CAT 6 FTP - SLIM

## Toolless



### Application

Gigabit Ethernet, 10/100/1000 BASETx, 4/16 Mbps Token Ring, 155 Mbps ATM, 100 Mbps TPPMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice. Universal wiring labels permit termination to either T568A or T568B wiring patterns.

### Description

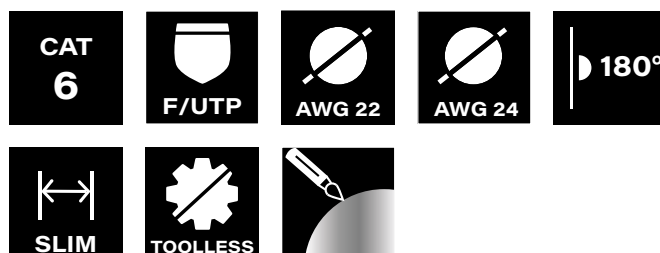
ORCA Category 6A Series jacks exceed TIA/EIA-568-B.2 requirements for Category 6A component performance. The ORCA Category 6 System complies with all of the performance requirements for current and proposed applications. Shielded Modular jacks are unkeyed, 4-pair and meet the Category 6 performance requirements. Modular jacks shall be terminated using PC board connectors, colour coded for both T568A and T568B wiring. Each jack shall be provided with a bendlimiting strain relief.

### Material specification

Dimension: 19,33 (H) x 16,80 (W) x 33,8 (D)  
Wire: 22-24 AWG

### Performance

Dielectric strength 750 VAC RMS 60Hz, 1 min ENV.  
Withstand voltage: DC 1000 V, AC 750 V, no breakdown within 1 minute



CODE	DESCRIPTION
235220-01-K12	Keystone Jack Cat 6 FTP toolless, Slim

# Copper Keystone RJ45 CAT 6 FTP

## Punch Dual



### Application

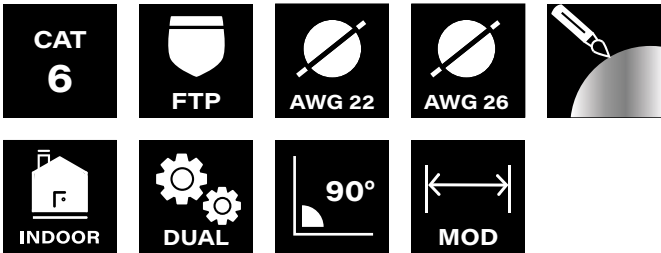
The ORCA Category 6 System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet, 10/100/1000 BASETx, 4/16 Mbps Token Ring, 155 Mbps ATM, 100 Mbps TPPMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice

### Description

Shielded Modular jacks are unkeyed, 4-pair and meet the Category 6 performance requirements. Modular jacks shall be terminated using 110-style pc board connectors, colour coded for both T568A and T568B wiring.

The 110-style connectors shall be capable of terminating 24-26 AWG solid wire.

Each jack shall be provided with a bendlimiting strain relief.



### Material specification

Dimension: 20,0 (H) x 21,2,0 (W) x 31,7 (D)

### Performance

Dielectrics stregnth: 750 Vac RMS 60Hz, 1 min

Insulation resistance: 1000 MΩ Min.



CODE	DESCRIPTION
233220-00	Insert RJ45 CAT 6 FTP

# Copper Patch Panel CAT 6

## Loaded

### Application

Category 6 Density Patch Panels provide excellent performance for high speed LANs from 10 Mb to Gigabit Ethernet 100BASETx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice applications. 1U 19" standard format is ideal for rack installation.

### Description

High quality components and innovative IDC connection techniques with rear utilities colour coded for correct connection of UTP cable, and planar ring cable clips Front of the panel features easy to use slide in labels.

### Material specification

Operation Temperature: -20 to 68 °C

### Compliance

Wiring Printing: T568A & T568B wiring Printing on IDC Numbered and with label holder rear cable bar

### Standard compliance and approvals

ANSI/TIA-568-C, ISO/IEC 11801, RoHS Directive 2011/65/EU compliant



CODE	DESCRIPTION
273120-24	Patch Panel CAT. 6 UTP, 1U, 24P Loaded

### RELATED PRODUCTS

#### Cable

- 212013-52
- 212013-62

#### Patch cord series

- 2231Z0-YX
- 223142-YX

#### Tool

- 269000-00



# Copper Patch Panel CAT 6 - FTP

## Loaded

### Application

Category 6 Density Patch Panels provide excellent performance for high speed LANs from 10 Mb to Gigabit Ethernet 100BASETx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice applications. 1U 19" standard format is ideal for rack installation.



### Description

High quality components and innovative IDC connection techniques with rear utilities colour coded for correct connection of FTP cable, grounded rear cable holder system. Front panel with numerical identification.

### Material specification

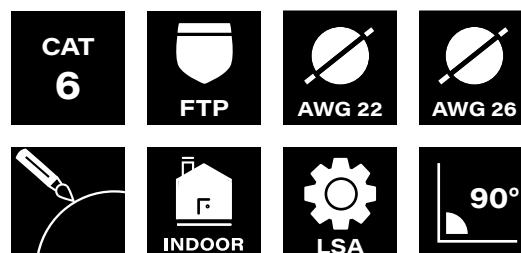
Operation Temperature: -20 to 68 °C

### Compliance

Wiring Printing: T568A & T568B wiring Printing on IDC. Numbered

### Standard compliance and approvals

ANSI/TIA-568-C, ISO/IEC 11801, RoHS Directive 2011/65/EU compliant



CODE	DESCRIPTION
273220-24	Patch Panel CAT. 6 FTP, 1U, 24P Loaded

### RELATED PRODUCTS

#### Cable

- 212213-02
- 212213-12
- 212213-22

#### Patch cord series

- 223240-YX

#### Tool

- 269000-00



# Copper patch cord CAT 6 U/UTP



## Application

Horizontal distribution and Backbone Cabling, IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant

## Material Specification

Jacket PVC  
Braid Nom.O.D. 5.9 ±0.20 mm

CAT  
6

U/UTP

PVC

AWG 24

INDOOR

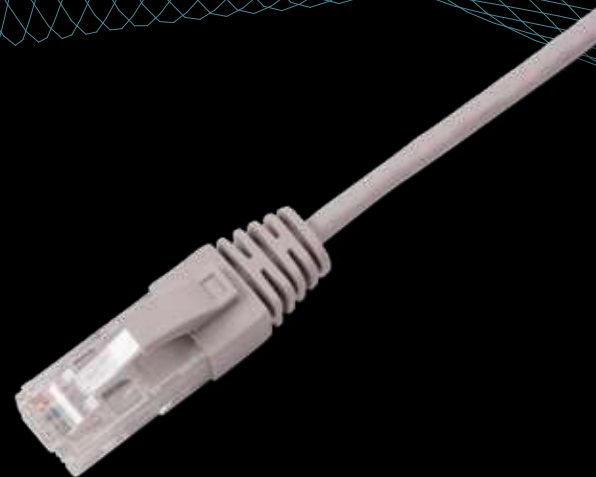
## Electrical Features and Performance

Operating Temperature: -10/+60°C



LENGTH (m)	GREY ●	RED ●	YELLOW ●	GREEN ●	BLUE ●	BLACK ○	VIOLET ●
0,5	223140-A0	223170-A0	223180-A0	223190-A0	223160-A0	223110-A0	223150-A0
1	223140-01	223170-01	223180-01	223190-01	223160-01	223110-01	223150-01
1,5	223140-A1	223170-A1	223180-A1	223190-A1	223160-A1	223110-A1	223150-A1
2	223140-02	223170-02	223180-02	223190-02	223160-02	223110-02	223150-02
3	223140-03	223170-03	223180-03	223190-03	223160-03	223110-03	223150-03
5	223140-05	223170-05	223180-05	223190-05	223160-05	223110-05	223150-05
10	223140-10	223170-10	223180-10	223190-10	223160-10	223110-10	223150-10
15	223140-15	223170-15	223180-15	223190-15	223160-15	223110-15	223150-15

# Slim copper patch cord CAT 6 U/UTP



## Application

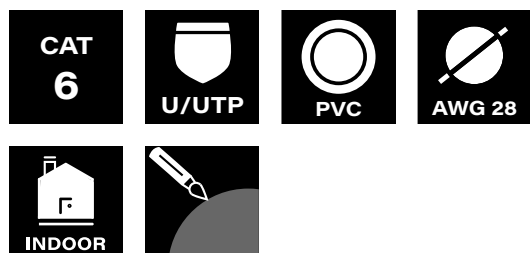
Unshielded horizontal distribution and Backbone Cabling, IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant

## Material Specification

Jacket PVC  
Braid Nom.O.D. 3.8 ±0.20 mm

## Electrical Features and Performance

Operating Temperature: -10/+60°C



LENGTH (m)	CODE	DESCRIPTION
1	223142-01	SLIM Copper Patch Cord Cat.6 UTP – Grey - L.1m
2	223142-02	SLIM Copper Patch Cord Cat.6 UTP – Grey - L.2m
3	223142-03	SLIM Copper Patch Cord Cat.6 UTP – Grey - L.3m
5	223142-05	SLIM Copper Patch Cord Cat.6 UTP – Grey - L.5m
10	223142-10	SLIM Copper Patch Cord Cat.6 UTP – Grey - L.10m

# Slim copper colored patch cord CAT 6 U/UTP



## Application

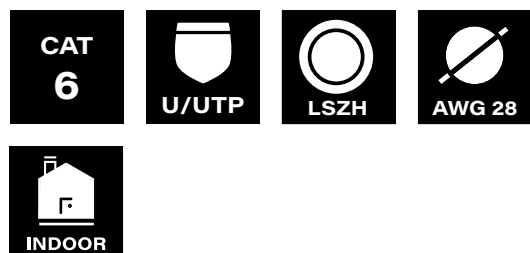
Unshielded horizontal distribution and Backbone Cabling, IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant

## Material Specification

Jacket LSZH  
Braid Nom.O.D. 3,8 ±0.20 mm

## Electrical Features and Performance

Operating Temperature: -10/+60°C



CODE	DESCRIPTION	Y	X	LENGHT
2231Z2-YX	SLIM Copper Patch Cord Cat.6 UTP AWG28	0	.25	0,25 m
		A	0	0,5 m
		0	1	1 m
		A	1	1,5 m
		0	2	2 m
		0	3	3 m
		0	5	5 m
		1	0	10 m

Colours: "Z" 1 = balck; 3 = white; 4(GC) = lite gray; 6 = blue; 7 = red; 8 = yellow; 9 = green;

# Copper patch cord CAT 6 F/UTP

## Application

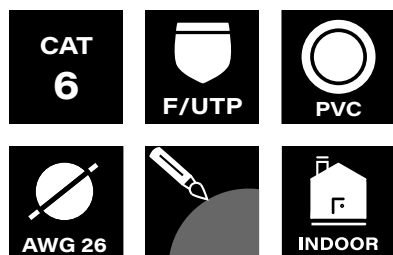
Shielded Horizontal distribution and Backbone Cabling, IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant

## Material Specification

Jacket PVC  
Braid Nom.O.D. 6.0 ±0.20 mm

## Electrical Features and Performance

Operating Temperature: -10/+60°C



LENGTH (m)	CODE	DESCRIPTION
0,5	223240-A0	Copper Patch Cord Cat.6 F/UTP – Grey - L.0,5m
1	223240-01	Copper Patch Cord Cat.6 F/UTP – Grey - L.1m
1,5	223240-A1	Copper Patch Cord Cat.6 F/UTP – Grey - L.1,5m
2	223240-02	Copper Patch Cord Cat.6 F/UTP – Grey - L.2m
3	223240-03	Copper Patch Cord Cat.6 F/UTP – Grey - L.3m
5	223240-05	Copper Patch Cord Cat.6 F/UTP – Grey - L.5m
10	223240-10	Copper Patch Cord Cat.6 F/UTP – Grey - L.10m
15	223240-15	Copper Patch Cord Cat.6 F/UTP – Grey - L.15m



# Copper cable CAT 5E UTP

## LSZH 24AWG - Eca

### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

### Construction and features

Material	LSZH - CPR Eca
Diameter	Nominal: 5.20 ±0.20 mm
Colour	Gray (RAL-7035)

### Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0), ISO/IEC 11801-2:2017(Ed. 1.0), EN 50173-1:2018 , EN 50173-2:2018, IEC 61156-5:2012 (Ed.2.1), EN 50288-3-1:2013, ANSI/TIA-568-C.2:2009, EN 60332-1-2 (Fire Performance), EN 61034-2 (Smoke Density), EN 60754-2 (Halogen Free), EN 50575 (Reaction to fire)

### Electrical features and performance

Operating Temperature: -20/60°C



CODE	DESCRIPTION
212012-32	COPPER CABLE CAT 5E U/UTP LSZH - Eca - Gray

### RELATED PRODUCTS

#### Patch panel

- 273120-24
- 273121-48
- 570122-24
- 570123-24

#### Keystone

- 233120-00
- 233130-00
- 233140-00

#### Plug

- 232122-01

#### Patch cord series

- 2221X0-XX

# Copper cable CAT 5E F/UTP

## 24AWG LSZH - Eca

### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal), IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002; POE; IEEE 802.3at: POE+

### Construction and features

Material	LSZH – CPR Eca
Diameter	Nominal: 6.00 ±0.20 mm
Colour	White (RAL-9016)

### Standard compliance and approvals

ISO/IEC 11801-1:2017(Ed. 1.0), ISO/IEC 11801-2:2017(Ed. 1.0), EN 50173-1:2018, EN 50173-2:2018, IEC 61156-5:2012 (Ed.2.1), EN 50288, TIA-568.2-D:2018, EN 60332-1-2 (Fire Performance), EN 61034-2 (Smoke Density), EN 60754-2 (Halogen Free), EN 50575 (Reaction to fire)

### Electrical features and performance

Operating Temperature: -20/60°C



CODE	DESCRIPTION
212212-12	COPPER CABLE CAT 5e F/UTP LSZH - Eca - White

### RELATED PRODUCTS

#### Patch panel

- 273220-24

#### Keystone

- 233220-00
- 235220-00

#### Plug

- 232212-01

#### Patch cord series

- 222240-XX

# Copper cable CAT 5E F/UTP

## Flex

### Application

Tertiary (Horizontal), specific for shielded patch cord, IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

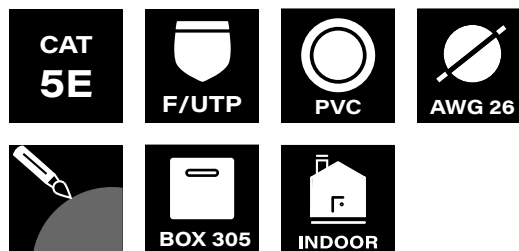


### Construction and features

Material	Flame retardant PVC
Diameter	Nominal: 5,6 mm
Colour	Gray

### Standard compliance and approvals

ANSI/TIA-568-C.2 Cat. 5e, ISO/IEC 2nd Edition 11801 Class D, IEC 61156-6, Second Edition CENELEC EN 50288-2-2 for patch cable, IEC 60332-1-2 Flame Retardancy verification, RoHS compliance for the European Union issued Directive 2002/95/EC, UL/cUL Listed, ETL/3P Certified ANSI/TIA-568-C.2 Category 5E Testing Performance Requirements



### CODE

### DESCRIPTION

211212-07

COPPER CABLE CAT.5E F/UTP FLEX - GRAY

### RELATED PRODUCTS

#### Patch panel

- 273220-24

#### Keystone

- 233220-00
- 235220-00

#### Plug

- 232212-02



# Copper Keystone RJ45 CAT 5E UTP

## Punch 110



### Application

Horizontal distribution & Backbone Cabling, 4/16 Mbps Token Ring (IEEE 802.5), 10/100/1000 BASE-T (IEEE 802.3), 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, ADSL, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice.

### Description

ORCA® Category 5E Series jacks exceed TIA/EIA-568-A and TIA/EIA-568-B requirements for Category 5E component performance. The Category 5E System complies with all of the performance requirements for current and proposed applications.

### Material specification

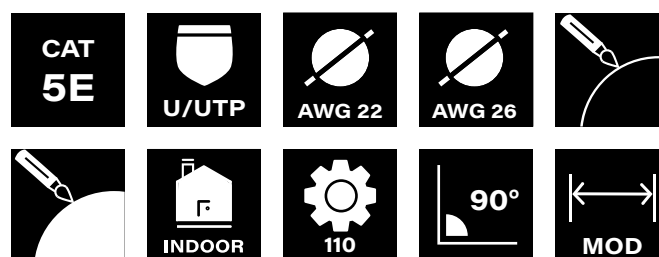
Dimension: 22,8 (H) x 18,2 (W) x 32 (D)

### Performance

Dielectrics strength: 750 Vac RMS 60Hz, 1 min  
Insulation resistance: 1000 MΩ Min.

### Standard compliance and approvals

ANSI/TIA-568-C. 2, ISO/IEC 11801: 2002/ Amd. 2: 2010, Meet EN50173, RoHS Directive 2011/65/EU compliant



CODE	DESCRIPTION
232120-00	Insert RJ45 CAT 5E UTP White
232130-00	Insert RJ45 CAT 5E UTP Black



# Copper Keystone RJ45 CAT 5E UTP

## Toolless



### Application

Horizontal distribution & Backbone Cabling, 4/16 Mbps Token Ring (IEEE 802.5), 10/100/1000 BASE-T (IEEE 802.3), 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, ADSL, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice.

### Description

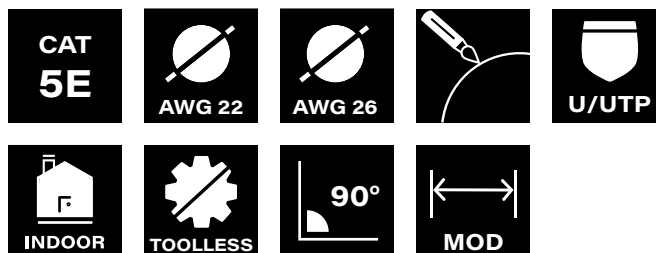
ORCA® Category 5E Series jacks exceed TIA/EIA-568-A and TIA/EIA-568-B requirements for Category 5E component performance. The Category 5E System complies with all of the performance requirements for current and proposed applications. Profile jacks are compatible with international faceplates.

### Material specification

Dimension: 22,1 (H) x 33,8 (W) x 1,78 (D)

### Standard compliance and approvals

ANSI/TIA-568-C. 2, ISO/IEC 11801: 2002/ Amd. 2: 2010, Meet EN50173, RoHS Directive 2011/65/EU compliant



#### CODE

#### DESCRIPTION

232140-00

Keystone Jack RJ45 CAT 5E UTP Toolless - Black

# Copper Keystone RJ45 CAT 5E FTP

## Punch 110

### Application

Gigabit Ethernet, 100BASETx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analogue (broadband, baseband) and digital video and analogue and digital (VoIP) voice.



### Description

ORCA® Category 5E Series jacks exceed TIA/EIA-568-B requirements for Category 5E component performance. The Category 5E System complies with all of the performance requirements for current and proposed applications. These slim profile jacks are compatible with European faceplates. Universal wiring labels permit termination to either T568A or T568B wiring patterns. Cables may be dressed at 90 degree or added flexibility at various outlet locations. The strain relief may also be used to reduce stress on cable at point of termination. All components and the final product are design, 2 layered and tested to conform to the requirements standard.

### Material specification

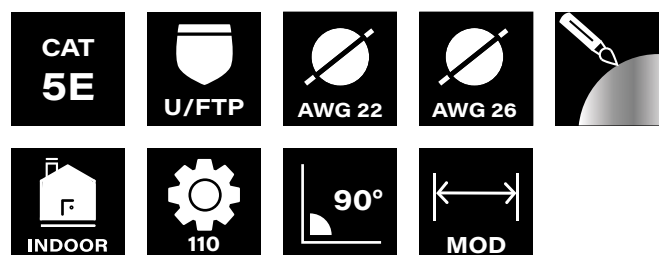
Dimension: 22,1 (H) x 33,8 (W) x 1,78 (D)

### Performance

Dielectrics strength: 750 Vac RMS 60Hz, 1 min  
Insulation resistance: 1000 MΩ Min.

### Standard compliance and approvals

TIA/EIA-568-A and TIA/EIA-568-B, TIA/EIA TSB-40, ISO/IEC Generic cabling standard 11801, CENELEC Generic Cabling Standard EN50173, mates with modular plug conforming to FCC part 68, subpart F



CODE	DESCRIPTION
232220-00	Keystone Jack RJ45 CAT 5E FTP - Modular

# Copper Keystone RJ45 CAT 5E FTP

## Toolless

### Application

Gigabit Ethernet, 100BASETx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analogue (broadband, baseband) and digital video and analogue and digital (VoIP) voice.



### Description

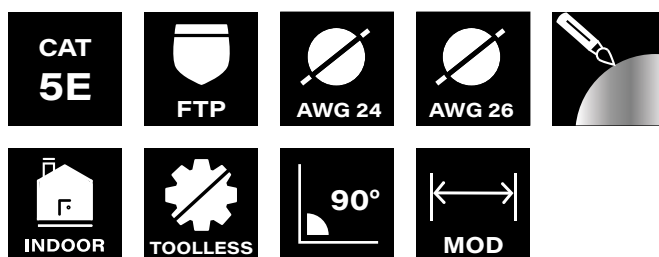
ORCA® Category 5E Series jacks exceed TIA/EIA-568-B requirements for Category 5E component performance. The Category 5E System complies with all of the performance requirements for current and proposed applications. These slim profile jacks are compatible with European faceplates. Universal wiring labels permit termination to either T568A or T568B wiring patterns. Cables may be dressed at 90 degree or added flexibility at various outlet locations. The strain relief may also be used to reduce stress on cable at point of termination. Shielded Toolless Modular jacks are unkeyed, 4-pair and meet the Category 5E performance requirements. Modular Toolless jacks shall be terminated using 110-style pc board connectors, colour coded for both T568A and T568B wiring. The 110-style connectors shall be capable of terminating 24-26 AWG solid wire. Each jack shall be provided with a bend-limiting strain relief. All components and the final product are design, 2 layered and tested to conform the requirements standard

### Material specification

Dimension: 22,1 (H) x 33,8 (W) x 17,8 (D)

### Standard compliance and approvals

TIA/EIA-568-A and TIA/EIA-568-B, TIA/EIA TSB-40, ISO/IEC Generic cabling standard 11801, CENELEC Generic Cabling Standard EN50173, mates with modular plug conforming to FCC part 68, subpart F



### CODE

### DESCRIPTION

232230-00

MODULAR KEYSTONE JACK CAT.5E FTP - Toolless



# Copper Patch Panel CAT 5E - UTP

## Loaded



### Application

Category 5 Density Patch Panels provide excellent performance for high speed LANs from 10 Mb to Gigabit Ethernet applications. 1U 19" standard format is suitable for rack installation.

### Description

High quality components and innovative IDC connection techniques with rear utilities colour coded for correct connection of UTP cable, and planar ring cable clips. Front of the panel features easy to use slide in labels.

### Material specification

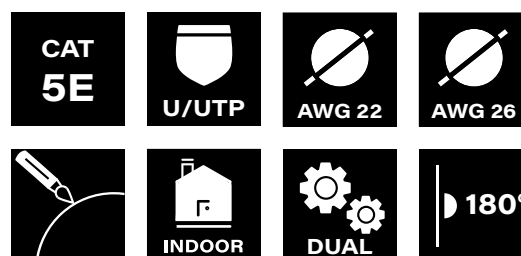
Operation Temperature: -20 to 68 °C

### Compliance

Wiring Printing: T568A & T568B wiring Printing on IDC  
Numbered and with label holder

### Standard compliance and approvals

ANSI/TIA-568-C, ISO/IEC 11801, RoHS Directive 2011/65/EU compliant



CODE	DESCRIPTION
272120-24	Patch Panel CAT. 5E UTP, 1U, 24P Loaded
272120-48	Patch Panel CAT. 5E UTP, 2U, 48P Loaded

### RELATED PRODUCTS

#### Cable

- 21012-32
- 21012-32

#### Patch cord series

- 2221Z0-YX
- 2221Z0-YX

#### Tool

- 269000-00

# Copper Patch Panel CAT 5E - FTP

## Loaded



### Application

Category 5 Density Patch Panels provide excellent performance for high speed LANs from 10 Mb to Gigabit Ethernet applications. 1U 19" standard format is suitable for rack installation.

### Description

High quality components and innovative IDC connection techniques with rear utilities colour coded for correct connection of FTP cable, grounded rear cable holder system. Front panel with numerical identification.

### Material specification

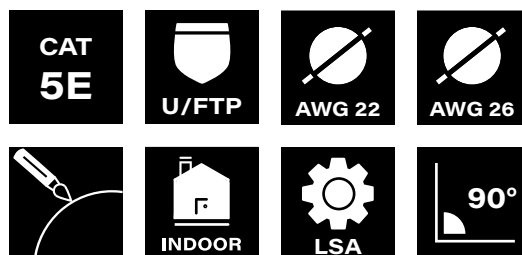
Operation Temperature: -20 to 68 °C

### Compliance

Wiring Printing: T568A & T568B wiring Printing on IDC. Numbered

### Standard compliance and approvals

ANSI/TIA-568-C, ISO/IEC 11801, RoHS Directive 2011/65/EU compliant



CODE	DESCRIPTION
272220-24	Patch Panel CAT. 5E FTP, 1U, 24P Loaded

### RELATED PRODUCTS

#### Cable

- 21012-12

#### Patch cord series

- 222240-YX

#### Tool

- 269000-00

# Copper patch cord CAT 5E UTP



## Application

Horizontal distribution and Backbone Cabling, IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant

## Material Specification

Jacket PVC  
Braid Nom.O.D. 5.4 ±0.20 mm

CAT  
6A

U/UTP

PVC

AWG 24

INDOOR

## Electrical Features and Performance

Operating Temperature: -10/+60°C



LENGTH (m)	GREY ●	RED ●	YELLOW ●	GREEN ●	BLUE ●	BLACK ○
0,5	222140-A0	222170-A0	222180-A0	222190-A0	222160-A0	222110-A0
1	222140-01	222170-01	222180-01	222190-01	222160-01	222110-01
1,5	222140-A1	222170-A1	222180-A1	222190-A1	222160-A1	222110-A1
2	222140-02	222170-02	222180-02	222190-02	222160-02	222110-02
3	222140-03	222170-03	222180-03	222190-03	222160-03	222110-03
5	222140-05	222170-05	222180-05	222190-05	222160-05	222110-05
10	222140-10	222170-10	222180-10	222190-10	222160-10	222110-10
15	222140-15	222170-15	222180-15	222190-15	222160-15	222110-15



# Copper patch cord CAT 5E F/UTP



## Application

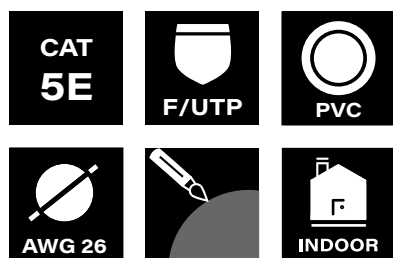
Horizontal distribution and Backbone Cabling, IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T, IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; ROHS Compliant

## Material Specification

Jacket	PVC
Braid	Nom.O.D. 5.6 ±0.20 mm

## Electrical Features and Performance

Operating Temperature: -10/+60°C



LENGTH (m)	CODE	DESCRIPTION
0,5	222110-A0	Copper Patch Cord CAT 5E F/UTP – Grey - L. 0,5m
1	222110-01	Copper Patch Cord CAT 5E F/UTP – Grey - L.1m
2	222110-02	Copper Patch Cord CAT 5E F/UTP – Grey - L.2m
3	222110-03	Copper Patch Cord CAT 5E F/UTP – Grey - L.3m
5	222110-05	Copper Patch Cord CAT 5E F/UTP – Grey - L.5m
10	222110-10	Copper Patch Cord CAT 5E F/UTP – Grey - L.10m
15	222110-15	Copper Patch Cord CAT 5E F/UTP – Grey - L.15m



# Indoor copper cable

## Telephone application Transposition Cables



### Application

"Last mile" connection cable for telephone application - indoor use

### Construction and features

Copper twisted pair cable, for telephon application, with nominal 0.6 mm diameter tinned copper conductors, PVC insulated, with reduced fire spread and corrosivity in case of combustion. Various colours.

### Standard compliance and approvals

EN 50575:2014+A1:2016



CODE	DESCRIPTION
312009-00	Telephon Transposition Cables 0,6mm W/Green (moq. 250m)
312008-00	Telephon Transposition Cables 0,6mm W/Yellow (moq. 250m)
312007-00	Telephon Transposition Cables 0,6mm W/Red (moq. 250m)
312006-00	Telephon Transposition Cables 0,6mm W/Blu (moq. 250m)

# Copper cable for telephone application

## Drop wire "Bronzino" and "Abbonato" versions

### Application

"Last mile" connection cable for telephone application,  
outdoor or indoor use

#### Bronzino Construction and features

Round subscriber cable with two cadmium-free Bronze conductors in diameter 1.0 mm nominal, with PolyEthylene insulation and PVC sheath.

**Diameter** Nominal: 6,2mm

**Sheath thickness:** 1,1mm



#### Abbonato Construction and features

Round subscriber cable with two copper conductors with a nominal diameter of 0.6 mm, with Polyethylene insulation and Polyvinyl chloride sheath

**Diameter** Nominal: 4,5mm

**Sheath thickness:** 0,8mm

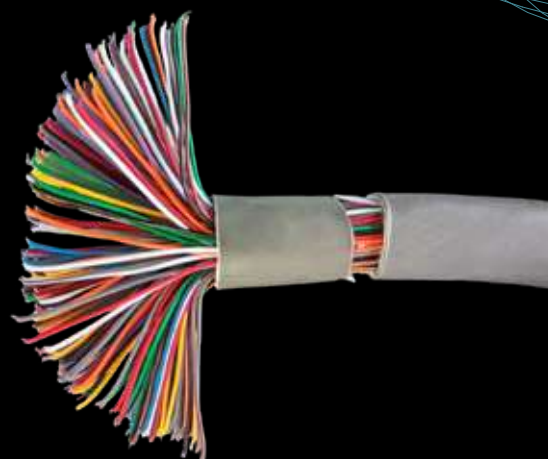
CODE	DESCRIPTION
312010-01	Telephone Copper Cable TE 1 pair x 1 "Bronzino" (mat. 300m)
312010-00	Telephone Copper Cable TE 1 pair x 0,6 "Abbonato Telecom" (mat. 250m)

# Multipairs Indoor Copper Cable

## Telephone application - Eca

### Application

The Orca Phone Cable is used for internal connection of telephone systems and other communications equipment. Insulated and sheathed in LSZH, these cables offer an extremely cost effective general signal cable for fixed installation



### Construction and features

Solid tinned copper conductor Class 1 (IEC 60228, DIN VDE 0295, EN 60228)  
PVC or LSZH Insulation (TS IEC 60189-2)  
Pair with group twisting and polypropylene identification tape  
Wrapping by non-hygroscopic polyester tape PVC or LSZH UV resistant outer sheath  
Colour grey RAL 7035



### Standard compliance and approvals

Class1 IEC 60228, DIN VDE 0295, EN60228

CODE	DESCRIPTION
312010-02	Indoor Telephone Copper Cable TR 2 pairs + ground - CPR Class Eca (mat. 250m)
312010-03	Indoor Telephone Copper Cable TR 3 pairs - CPR Class Eca (mat. 250m)
312010-06	Indoor Telephone Copper Cable TR 6 pairs - CPR Class Eca (mat. 250m)
312010-11	Indoor Telephone Copper Cable TR 11 pairs - CPR Class Eca
312010-16	Indoor Telephone Copper Cable TR 16 pairs - CPR Class Eca
312010-21	Indoor Telephone Copper Cable TR 21 pairs - CPR Class Eca
312010-26	Indoor Telephone Copper Cable TR 26 pairs - CPR Class Eca
312010-31	Indoor Telephone Copper Cable TR 31 pairs - CPR Class Eca
312010-50	Indoor Telephone Copper Cable TR 51 pairs - CPR Class Eca
312010-E1	Indoor Telephone Copper Cable TR 101 pairs - CPR Class Eca



# Multipairs Outdoor Copper Cable

## Telephone application - Fca

### Application

The Orca Phone Cable is used for external connection of telephone systems and other communications equipment. ORCA cables primarily designed for the interconnection of telephone equipment. In addition these cables may be used for interconnection of other communication and control equipment or low level signalling applications.



### Construction and features

Solid bare copper conductor, diameter 0,6 mm  
Polyethylene Insulation  
Pair with group twisting  
Aluminium tape with 0.6 mm tinned copper drain wire  
PE (Polyethylene) outer sheath



### Standard compliance and approvals

Class1 IEC 60228, DIN VDE 0295, EN60228

CODE	DESCRIPTION
312020-10	Outdoor Telephone Copper Cable TEGHE 10 pairs shielded PE sheath
312020-20	Outdoor Telephone Copper Cable TEGHE 20 pairs shielded PE sheath
312020-30	Outdoor Telephone Copper Cable TEGHE 30 pairs shielded PE sheath
312020-50	Outdoor Telephone Copper Cable TEGHE 50 pairs shielded PE sheath
312020-E0	Outdoor Telephone Copper Cable TEGHE 100 pairs shielded PE sheath

# Copper Keystone Jack and Patch Panel CAT 3

## Telephone application



### Application

Orca Keystone and Patch Panel for telephonic application

#### Keystone

Dimension: 16,30 (H) x 18,7 (W) x 30,8 (D)

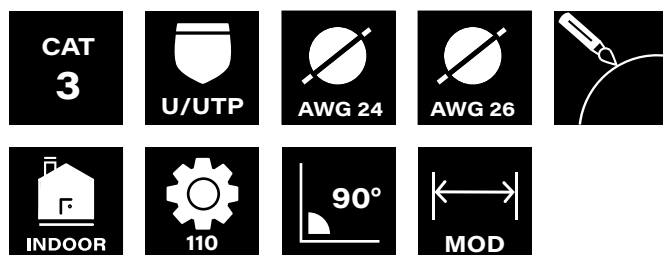
#### Performance

Insertion force:  $\geq 5$  kg

Insulation resistance:  $\geq 500$  M $\Omega$

#### Standard compliance and approvals

ANSI/TIA-568-C. 2, ISO/IEC 11801: 2002/ Amd. 2: 2010, Meet EN50173, RoHS Directive 2011/65/EU compliant



#### Telephone Patch Panel

The Orca Telephone Patch Panel is based on 19" frame dimensions, and it is easy to manage thanks to the cable guide tie wrap support. The use of patch guides, allow an orderly arrangement of cables. The 25/50 ports Patch Panel are compliant with Category 3 requirements.

#### Features

Material of main part	Metal
Material of pin	Phosphor bronze
IDC Wire Gauge	24-26AWG
Version	25 or 50 port – 1U

#### Standard compliance and approvals

ANSI/TIA-568-C, RoHS Directive 2011/65/EU compliant, ISO/IEC 11801

CODE	DESCRIPTION
231130-00	Keystone RJ45 Cat. 3 UTP - Black
231131-00	Keystone RJ11 Cat. 3 UTP (toolless) - Black
271120-50	Telephone patch panel 50 ports 1U 19" Rack
271120-25	Telephone patch panel 25 ports 1U 19" Rack

# Copper patch cord

## XC - 110-110 and 110-RJ45



### Application

Analog and PSTN telephonic application horizontal distribution and Backbone Cabling, 10Base-T; 100Base-TX; IEEE 802.5 4/16 MB; ISDN; ADSL; 100Mbps TP-PMD; 155 Mbps ATM; Analog and PSTN telephonic application

### Material Specification

Jacket PVC

### Electrical Features and Performance

Operating Temperature: -10/+60°C



CAT 3

CAT 5E

U/UTP

PVC

AWG 24

INDOOR

LENGTH (m)	XC UTP 110/110 1CP	XC UTP 110/RJ45 1CP	XC UTP 110/RJ45 2CP	UTP 110/110 4CP CAT 5E	UTP 110/110 4CP CAT 5E
1	222105-01	222101-01	222102-01	223340-01	222104-01
2	222105-02	222101-02	222102-02	223340-02	222104-02
3	222105-03	222101-03	222102-03	223340-03	222104-03

# Copper patch cord CAT 3

## 1 CP, 2 CP

### Application

Analog and PSTN telephonic application

### Material Specification

Jacket	PVC
Braid	Nom.O.D. 3.5 ±0.20 mm

### Electrical Features and Performance

Operating Temperature: -10/+60°C

CAT  
3

U/UTP

PVC

AWG 24

INDOOR

	LENGTH (m)	GREY ●	BLUE ●	RED ●	YELLOW ●	GREEN ●
1 CP	0,5	226104-A0	226106-A0	226107-A0	226108-A0	226109-A0
	1	226104-01	226106-01	226107-01	226108-01	226109-01
	1,5	226104-A1	226106-A1	226107-A1	226108-A1	226109-A1
	2	226104-02	226106-02	226107-02	226108-02	226109-02
	3	226104-03	226106-03	226107-03	226108-03	226109-03
	5	226104-05	226106-05	226107-05	226108-05	226109-05
2 CP	0,5	226204-A0	226206-A0	226207-A0	226208-A0	226209-A0
	1	226204-01	226206-01	226207-01	226208-01	226209-01
	1,5	226204-A1	226206-A1	226207-A1	226208-A1	226209-A1
	2	226204-02	226206-02	226207-02	226208-02	226209-02
	3	226204-03	226206-03	226207-03	226208-03	226209-03
	5	226204-05	226206-05	226207-05	226208-05	226209-05



# Modular Plugs CAT 3



## Application

All the ORCA® modular plugs are designated and manufactured with an ISO9001 system. A complete line of the modular plugs for any telecommunications application. Available modular plugs for solid and stranded copper conductor.

## General features

Available Shielded and Unshielded; vailable Cat.3, Cat 5E and Cat 6; Backwards compatible; Field terminable capability; Ultra slim design for high density environments; Designed for ease of termination and assembly; Acceptable stranded and solid cable FTP and UTP; Telephonic version are suitable for 24-26 AWG cable; LAN version are suitable for 23-26 AWG cable

## Standard compliance and approvals

ROHS Compliant

## Performance

Strain Relief: 20 pound min.  
Dielectrics strength: 1000Vac @60sec  
Insulation resistance:  $\geq 100\text{M}\Omega$



CODE	DESCRIPTION
230110-00	Plug 4 position UTP stranded cable
230110-01	Plug 4 position UTP for solid installation cable
230113-00	Plug 6/4 position UTP stranded cable
230111-00	Plug 6 position UTP stranded cable

# Modular Plugs CAT 5E, 6, 6A



## Application

All the ORCA® modular plugs are designed and manufactured with an ISO9001 system. A complete line of the modular plugs for any telecommunications application. Available modular plugs for solid and stranded copper conductor.

## General features

Available Shielded and Unshielded; available Cat.3, Cat 5E and Cat 6; Backwards compatible; Field terminable capability; Ultra slim design for high density environments; Designed for ease of termination and assembly; Acceptable stranded and solid cable FTP and UTP; Telephonic version are suitable for 24-26 AWG cable; LAN version are suitable for 23-26 AWG cable

## Standard compliance and approvals

ROHS Compliant

## Performance

Strain Relief: 20 pound min.  
Dielectrics strength: 1000Vac @60sec  
Insulation resistance:  $\geq 500M\Omega$

**CAT  
5E**

**CAT  
6**

**CAT  
6A**

CODE	DESCRIPTION
232112-02	Plug 8 position UTP for Cat5E stranded cable
232122-01	Plug 8 position UTP Cat5E solid installation cable
232212-02	Plug 8 position FTP for Cat5E stranded cable
232212-01	Plug 8 position FTP Cat5E solid installation cable
233112-00	Plug 8 position with pre-insertion UTP, Cat6 stranded cable
233112-01	Plug 8 position UTP for Cat.6 solid installation cable
233112-02	Plug 8 position UTP for Cat.6 stranded cable
233212-01	Plug 8 position FTP for Cat.6 solid installation cable
233121-01	Plug 8 position FTP for Cat.6 stranded cable

# Boot for Modular Plugs

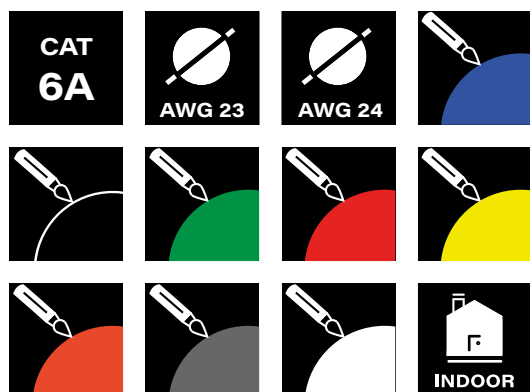


## Application

All the ORCA® boot plug covers are designated and manufactured with an ISO9001 system. A complete line of the modular plugs for any telecommunications application. Most modular plugs are in stock for immediately ship, special and bulk packages are available and we make quickly on request.

## General features

Available for Shielded and Unshielded plugs; Available Cat.3 (8 pins), Cat 5E and Cat 6; Suitable for RJ45 modular plug



CODE	COLOUR	DESCRIPTION
252000-06	●	Boot for modular plug – blue colour
252000-02	●	Boot for modular plug – black colour
252000-09	●	Boot for modular plug – green colour
252000-07	●	Boot for modular plug – red colour
252000-04	●	Boot for modular plug – grey colour
252000-05	●	Boot for modular plug – orange colour
252000-08	●	Boot for modular plug – yellow colour
252000-03	○	Boot for modular plug – white colour

# Modular Plugs CAT 6A



## Application

All the ORCA® modular plugs are designated and manufactured with an ISO9001 system. A complete line of the modular plugs for any telecommunications application. Available modular plugs for solid and stranded copper conductor.

## General features

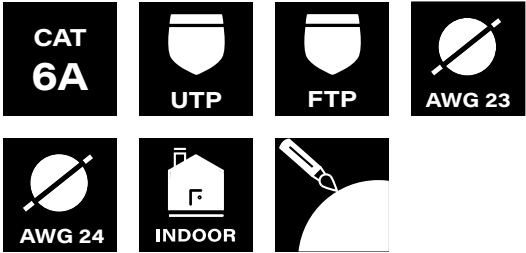
Available Shielded and Unshielded; vailable Cat 6A; Backwards compatible; Field terminable capability; Compact design for high density environments; Designed for ease of termination and assembly; Acceptable stranded and solid cable FTP and UTP; Toolless

## Standard compliance and approvals

ROHS Compliant

## Performance

Strain Relief: ≥5kg  
Dielectrics strength: DC 1000 V, AC 750 V, no breakdown within 1 minute  
Insulation resistance: ≥500MΩ @ 100Vdc



CODE	DESCRIPTION
233412-01	Plug - 8 position UTP for Cat6A installation cable
233312-01	Plug - 8 position FTP for Cat6A installation cable



# Inline Coupler Keystone and Junction box



## Application

Practical accessory for extending mains cables already equipped with terminal plug or laid in the field.

## Description

RJ45 female / female with standard keystone socket, suitable for fixing on patch panel or adapter.

Box equipped with PCB with standard 110 IDC system and fixing holes. Cable tightening with cable ties.

## Standard compliance and approvals

ANSI/TIA-568-C. 2; ISO/IEC 11801: 2002/ Amd. 2: 2010; Meet EN50173; RoHS Directive 2011/65/EU compliant



CODE	DESCRIPTION
291000-05	Adattatore F/F di giunz. diritto per connettore plug Cat 3 (moq. 4 pz.)
291000-07	Adattatore inline coupler F/F RJ45 da pannello KEJ di giunzione Cat6 UTP (conf. 4 pz)
291000-09	Box di giunzione FTP Cat. 6 - presa IDC 110 (moq 4 pz)
291000-10	Adattatore inline coupler F/F RJ45 di giunzione Cat6 FTP volante (moq 4 pz)
291000-12	Adattatore inline coupler F/F RJ45 da pannello KEJ di giunzione Cat6 FTP (moq 4 pz)
291000-13	Adattatore inline coupler F/F RJ45 di giunzione Cat6 UTP volante (moq 4 pz)
291000-15	Adattatore inline coupler F/F RJ45 da pannello KEJ di giunzione Cat6A FTP (moq 4 pz)
291000-16	Box di giunzione UTP Cat. 6 - presa IDC 110 (moq 4 pz)
291000-18	Adattatore inline coupler F/F RJ45 di giunzione Cat6A FTP volante (moq 4 pz)
291000-19	Box di giunzione FTP Cat. 6A - presa IDC 110 (moq 4 pz)

# Impact tools



## Application

ORCA® impact tool offers cuts, strips and crimps all kinds of modular plug without changing modular die set. Non-slip with ribbed edge handle. For RJ45 and RJ11 modular plugs terminated

## General features

Non-slip rubber grips on handle; adjustable Hi/Lo Impact setting; includes a small hook to remove any existing wires from a socket; easy to hold; simple to use; small and compact easily stored and transported; cuts and strips multiple cable types; made from high quality steel and plastic; integrated spring loaded bladed cuts of excess automatically; small blade to cut and strip wires to a desired length; main tool for pushing wires fully into tight spaces; universal scissors cut a variety of cable types to 26AWG and even Type 1 foam-insulated conductors; suitable for connecting cables, modules and distribution frames; the mouth of the press-pliers is made of magnetic steel, which is hard and durable; multi-conductor round cable bundles with a maximum diameter of 0.5" (12.7 mm); multi-purpose cutter and stripper for telephone and network installations; works with Cat3, Cat5, Cat5e, Cat6 shielded and non-shielded cable; 3 way crimper for 8P8C, 6P6C, 4P4C, RJ 45, 11 & 12 connectors; designed Wire Hook remove exterminated conductors



CODE	DESCRIPTION
260000-00	Impact tool for telephone connection Krone type
269000-00	Impact tool with interchangeable blade LSA/110 type
264000-00	Impact Tool multipair version - 5 cp

# Professional Crimp Tool

For 4, 6 and 8 ports



## Application

All-in-one telephone (4 and 6 position) or LAN (8 position) RJ plug crimping tool. Embedded flat cable cutter and stripper.

## Description

The ORCA professional modular plug crimping tool is designed to push the modular plug blades into the modular plug body perfectly straight on. Most modular plug crimping tools push the blade at a slight angle, which means that it takes more effort to crimp the modular plug. It may not crimp low quality RJ-45 modular plugs well. The ORCA professional modular plug crimping tool allows the networking professional to adjust the latch area for DEC style modular plugs. The ORCA professional modular plug also has a built-in cutter and cable stripper. The ORCA professional modular plug crimping tool has a racket style crimping tool. The professional modular plug crimping tool has spring loaded handles to keep the handles open for easier operation. ORCA Professional modular plug crimping tool crimps the modular plug correctly the first time and every time. This modular plug crimping tool is designed for the Cabling Professional who uses a modular plug crimping tool throughout the day.

## General features

For crimping type of modular plug: 8P8C/RJ45, 6P6C/RJ12, 4P4C/RJ11, for stripping type: 6mm and 12mm; manufactured to the Highest Quality Available; meets the standard of excellence, Latest Technical Development

CODE	DESCRIPTION
261000-00	Professional pincer for 4, 6 and 8/Dec port-plug

# Stripping Tool



## Application

Sharp, compact and lightweight ORCA stripping tools. they cut, strippers to the correct diameter, leaving the cable ready for use.

## General features

Black-oxide finish with plastic-dipped handles; Yellow Handle Color; Strips and Cuts 22-10 AWG (0,65- 2.6mm); A handy, light, compact tool for stripping insulation; Adjustable slide stop with set screw for repeat stripping work

CODE	DESCRIPTION
268000-00	Phone cable stripper Miller 103-S, 22-10 AWG (0,65-2.6mm)



# Copper tester

## RJ45 - FTP and UTP



### Application

ORCA® LED tester is useful for RJ45 patch cords, can test meanwhile can judge wrong connection, short circuit and open circuit.

### Description

Automatically scan mode, rapidly testing, the streamline shape is in accordance with the design of somatology. Durable design, working well even in construction location. Super handy device ensures your good mood. Cable Tester for RJ11, RJ45, 10/100 Base-T and telephone cable etc Automatic efficient scan for the miss wiring, disorder cable, open and short circuit Grounding test available Remotely test cable up to 305m in length ( remote kit included).9 LEDs to indicate which wire whether open or not on both remote and master unit Powered by DC 9V reduplicated battery (not included) Protective power switch for low power consumption. High quality soft leather case provides more secure protection.

### General features

RJ11, RJ12, RJ14, RJ45 plug ready; up to 305m in length; test miss wiring, disorder cable, open and short circuit Grounding; 9 LEDs indicator system; remote and master unit Powered by DC 9V battery



CODE	DESCRIPTION
265000-00	Analogic LED tester for patch cords RJ45 - FTP and UTP
265500-00	Analogic LED tester for copper cable RJ-45 UTP & FTP
266000-00	Digital Network Tester LCD for RJ-45 UTP & FTP

# Copper accessories

## Keystone faceplate and electrical line adapters



### Application

Adapters to accommodate the keystone copper terminations in the user's field sockets.

### Description

ORCA® faceplate and wall box 503 standard provides optimal solution to telecom system wiring. Easier access to data labels makes for faster installations. Long-term reliability, superior quality product, it is available in white and black. A lot of keystone adapters for domestic series of the most popular brands completes the ORCA® 's accessories offer, also included industrial DIN Rail



CODE	COLOUR	DESCRIPTION
250001-02	White	Faceplate white - 1 position universal
250002-02	White	Faceplate white - 2 position universal
250003-02	White	Faceplate white - 3 position universal
250004-02	White	Faceplate white - 4 position
250000-02	White	Cover hole for Faceplate white - universal
250001-01	Black	Faceplate black - 1 position universal
250002-01	Black	Faceplate black - 2 position universal
250003-01	Black	Faceplate black - 3 position universal
250000-01	Black	Cover hole for Faceplate black - universal
251005-01	White	Wall box faceplate (503) white (prof.40mm)
251005-02	Ivory	Wall box faceplate (503) ivory (prof.40mm)
288000-02		Adapter AVE Series Ral (moq. 20 pz.)

CODE	COLOUR	DESCRIPTION
281000-07		Adapter ABB Series Milos Chiara (moq. 20 pz.)
281000-08	Black	Adapter ABB Series Elos color black (moq. 20 pz.)
281000-10	White	Adapter ABB Series Chiara color white (moq. 20 pz.)
281000-04	Velvet	Adapter ABB Series Mylos Velvet (moq. 20 pz.)
288000-03	Ivory	Adapter AVE Series Blanc color ivory (moq. 20 pz.)
288000-01	White	Adapter AVE Series Banquise color white (moq. 20 pz.)
288000-00	Black	Adapter AVE Series Noir color black (moq. 20 pz.)
288000-02	Grey	Adapter AVE Series RAL (moq. 20 pz.)
288000-04	Grey	Adapter AVE Series RAL color grey (moq. 20 pz.)
288000-05	Grey	Adapter AVE Series DOMUS color grey (moq. 20 pz.)
288000-06	Black	Adapter AVE Series TEKLA color black (moq. 20 pz.)
288000-07	Allumia	Adapter AVE Series SISTEMIA444 ALLUMIA (moq. 20 pz.)
285000-00	Metal	Adapter Series Axolute color silver metal (moq. 20 pz.)
285000-01	Black	Adapter Series Axolute color black (moq. 20 pz.)
285000-02	White	Adapter Series Axolute color white (moq. 20 pz.)
283000-02	White	Adapter Series Living Light color white (moq. 20 pz.)
284000-04	Metal	Adapter Series Living Light Tech color silver metal (moq. 20 pz.)
281000-09	White	Adapter Series Luna color white (moq. 20 pz.)
282000-02	Black	Adapter Series Living color black (moq. 20 pz.)
282000-03	Black	Adapter Series Living International color black (moq. 20 pz.)
282000-04	White	Adapter Series Living Now - color white (moq. 20 pz.)
282000-05	Black	Adapter Series Living Now - color black (moq. 20 pz.)
281000-05	Ivory	Adapter Series Magic color ivory (moq. 20 pz.)
281000-06	Ivory	Adapter Series Magic TT color ivory (moq. 20 pz.)
280000-06	White	Adapter Series Matix color white (moq. 20 pz.)
287000-02	Black	Adapter Gewiss Series 9000 System color black (moq. 20 pz.)
287000-01	White	Adapter Gewiss Series 9000 System color white (moq. 20 pz.)
287000-06	Ferrari	Adapter Gewiss Series 9000 System color rosso Ferrari (moq. 20 pz.)
287000-05	Metal	Adapter Gewiss Series Chorus Titanio col.silver metal (moq. 20 pz.)
287000-03	Black	Adapter Gewiss Series Chorus color black (moq. 20 pz.)
287000-04	White	Adapter Gewiss Series Chorus color white (moq. 20 pz.)
287000-00	Black	Adapter Gewiss Series Playbus color black (moq. 20 pz.)
289000-02	White	Adapter Legrand Series Cross color white (moq. 20 pz.)
289000-01	White	Adapter Legrand Series Mosaic color white (moq. 20 pz.)

CODE	COLOUR	DESCRIPTION
289000-00	Black	Adapter Legrand Series Vela color black (moq. 20 pz.)
289000-03	White	Adapter Legrand Series Vela color white (moq. 20 pz.)
286000-03	Metal	Adapter Vimar Series Eikon color silver metalizzato (moq. 20 pz.)
286000-04	Black	Adapter Vimar Series Eikon color black (moq. 20 pz.)
286000-05	White	Adapter Vimar Series Eikon color white (moq. 20 pz.)
286000-01	White	Adapter Vimar Series Idea color white (moq. 20 pz.)
286000-00	Black	Adapter Vimar Series Idea color black (moq. 20 pz.)
286000-02	White	Adapter Vimar Series Plana color white (moq. 20 pz.)
286000-06	Metal	Adapter Vimar Series Plana Silver col. silver metal (moq. 20 pz.)
286000-08	Black	Adapter Vimar Series Arkè color black (moq. 20 pz.)
286000-07	White	Adapter Vimar Series Arkè color white (moq. 20 pz.)
286000-09	Antibacterial	Adapter Vimar Series Plana Antibacterial (moq. 20 pz.)
286000-10	Metal	Adapter Vimar Series Arkè Metal (moq. 20 pz.)
250011-02	Light Grey	Plastic adapter for UTP Keystone Jack on DIN rail – without side cover – light grey
250010-02	Light Grey	Plastic side cover for Keystone jack on DIN rail adapter





# Copper Patch Panel and fast insertion OneTool system

## CAT 6 - 6A

### Application

High Density Patch Panels provide excellent performance for high speed LANs from 10 Mb to 10 Gigabit Ethernet, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analogue (broadband, baseband) and digital video and analogue and digital (VoIP) voice applications.

### Description

1U 19" standard format is ideal for rack installation. High quality components and innovative techniques with rear lock cable utilities. Front of the panel features easy to use slide in labels. Fast tool connection for keystone cat. 6 and 6A UTP @180°

### Standard compliance and approvals

ANSI/TIA-568-C, ISO/IEC 11801, RoHS Directive 2011/65/EU compliant

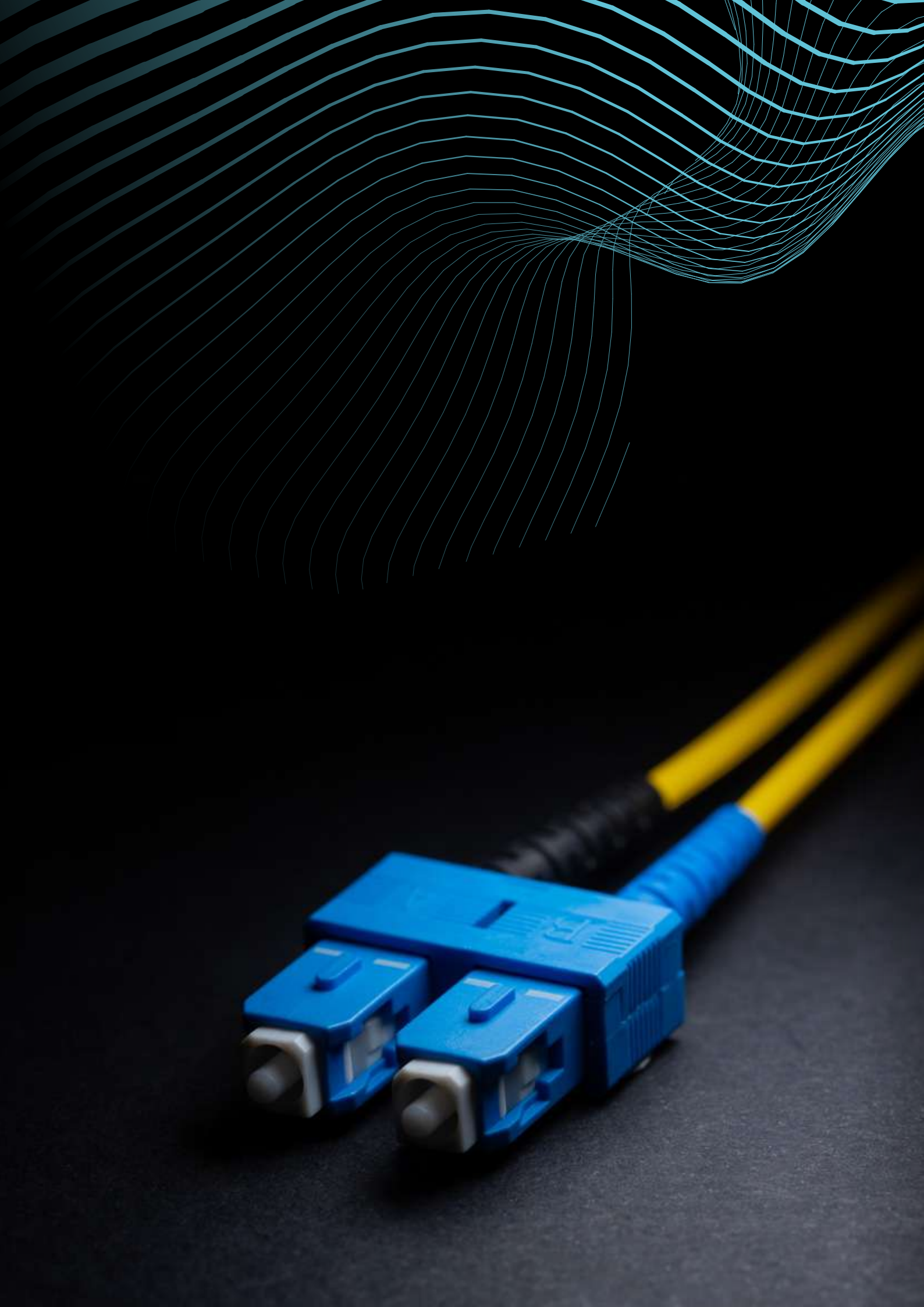
CAT  
6

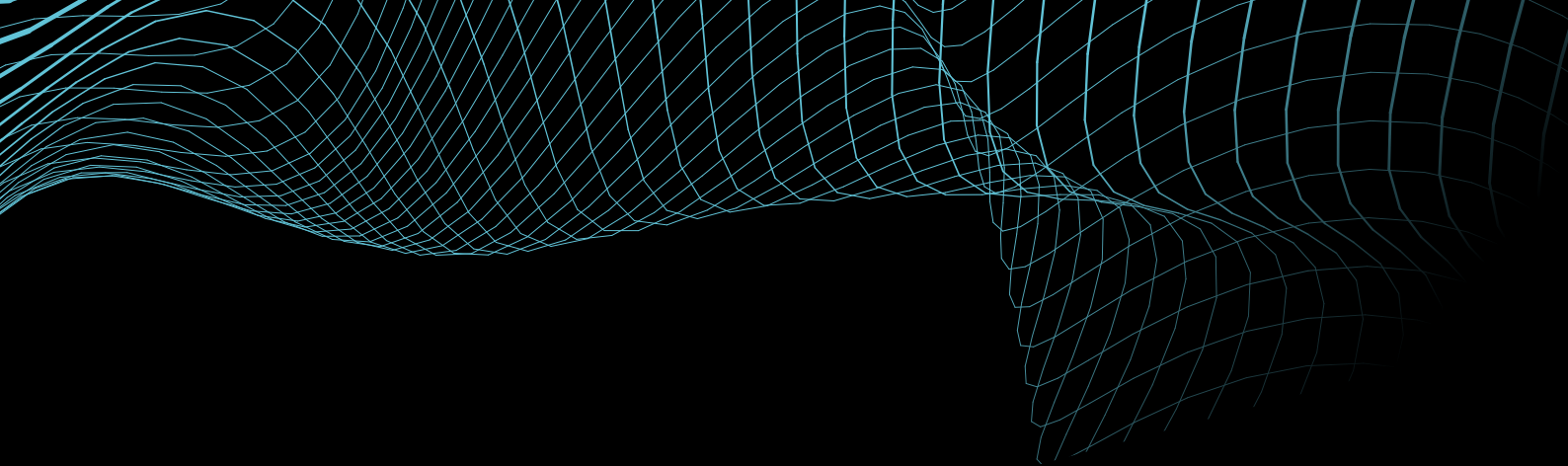
CAT  
6A



CODE	ITEM	CATEGORY
269000-08	OneTool - Insert and cut Tool	Ready for Orca keystone 6/6A UTP @180°
570125-00	OneTool Patchpanel	Ready for 6/6A UTP, FTP with ground cable
570129-00	Patch Panel angled	UTP only
233120-18-K12	Keystone 180° black	6 UTP
233130-18-K12	Keystone 180° white	6 UTP
233125-18-K12	Keystone 180° black	6A UTP
233135-18-K12	Keystone 180° white	6A UTP
233124-00-K12	Keystone toolless	6A UTP
233140-02-K12	Keystone toolless black	6 UTP
233140-03-K12	Keystone toolless White	6 UTP
235220-01-K12	Keystone toolless	6 FTP
233224-00-K12	Keystone toolless	6A FTP







<b>94</b>	CABLES
<b>101</b>	MPO/MTP SYSTEM
<b>103</b>	OPTICAL PATCH PANEL
<b>108</b>	ACCESSORIES
<b>113</b>	ADAPTERS
<b>117</b>	CONNECTORS
<b>122</b>	PIGTAILS
<b>130</b>	PATCH CORDS
<b>139</b>	TOOLS
<b>145</b>	SPLICERS & CLEAVERS

# Fiber Optic



# Fiber optic solutions

## Innovation for the future connections

Optical fiber is a filament of glass or polymeric material (mostly plastic), made in such a way as to be able to conduct light. In fiber infrastructures, data travels through light pulses, and thanks to the characteristics of the cables, the signals propagate rapidly over long distances, exploiting an extremely higher frequency band than that of copper connections.

ORCA's fiber optic solutions, used for the management of indoor and outdoor backbones, consist of a wide range of cables and components that guarantee reliability, safety, and compliance with regulations.

ORCA cables have different types of construction depending on the application and the needs of the end customer: managed "Loose" type with external sheath in LSZH, CPR class Eca / Dca or B2ca or HDPE (for outdoor use); single or multi-tube, with dielectric or corrugated steel armor.

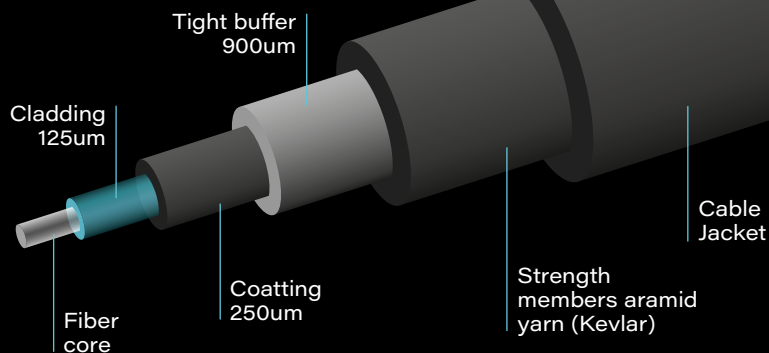
### SHEATH



### CPR CLASS



# CABLES CONSTRUCTION



## QUALITY AND STANDARDS

We have the approved standard versions available: Multimode OM1, OM2, OM3, OM4, OM5 and in the Singlemode version OS2. On request, custom cables are produced for the applications (subsea, areas, fire-resistant, PH90 / 120 etc...)

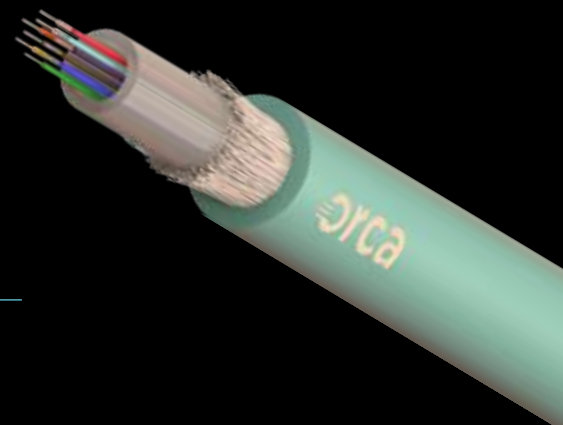


# 4-12 Fibers Central Tube Indoor Type

## Nonmetallic Armored F.O. Cable LSZH - Eca

### Application

Cables for indoor installation, but also suitable for outdoor use, with high transmission performance. Suitable for easily scalable and deployable network infrastructures: small business or large multi-purpose venues, supporting high-density system.



### Construction and features

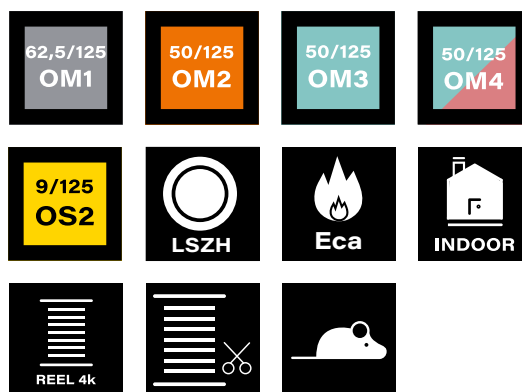
Loose tube material: PC+PBT  
Cable diameter: 5,5 mm  $\pm$  0,2  
Cable weight: 25 $\pm$ 10% kg/km

### Mechanical features

Tensile Force Test Standard: IEC 60794-1-2-E1  
Tensile Force Specified Value: 1000 N  
Crush Resistance Test Standard: IEC 60794-1-2-E3

### Environmental features

Temperature cycling Specified Value: Storage -40 to + 70 °C,  
Installation 0 to + 50 °C, Operation -20 to + 60 °C



N. FIBERS	62,5/125 OM1	50/125 OM2	50/125 OM3	50/125 OM4	9/125 OS2	CPR RATING
4	111112-04	111111-04	111114-04	111115-04*	111113-04	Eca
8	111112-08	111111-08	111114-08	111115-08*	111113-08	Eca
12	111112-12	111111-12	111114-12	111115-12*	111113-12	Eca

\* Also available in Erica Violet color, with code 111119 instead of 111115.

# 24 Fibers Central Tube Indoor Type

## Nonmetallic Armored F.O. Cable LSZH - Dca

### Application

Cables for indoor installation, but also suitable for outdoor use, with high transmission performance. Suitable for easily scalable and deployable network infrastructures: small business or large multi-purpose venues, supporting high-density system.



### Construction and features

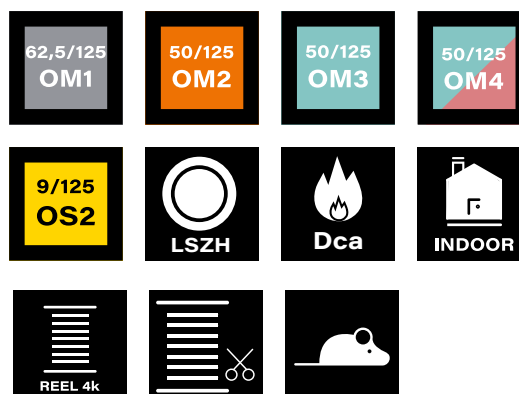
Loose tube material: PC+PBT  
Cable diameter: 5,9 mm  $\pm$  0,2  
Cable weight: 35 $\pm$ 10% kg/km

### Mechanical features

Tensile Force Test Standard: IEC 60794-1-2-E1  
Tensile Force Specified Value: 1000 N  
Crush Resistance Test Standard: IEC 60794-1-2-E3

### Environmental features

Temperature cycling Specified Value: Storage -40 to + 70 °C,  
Installation 0 to + 50 °C, Operation -20 to + 60 °C



**N. FIBERS** 62,5/125 OM1 ● 50/125 OM2 ● 50/125 OM3 ● 50/125 OM4 ● 9/125 OS2 ● **CPR RATING**

24 111112-24 111111-24 111114-24 111115-24\* 111113-24 Dca

\* Also available in Erica Violet color, with code 111119 instead of 111115.



# 4-24 Fibers Central Tube Indoor Type

## Nonmetallic Armored F.O. Cable LSZH - B2CA (s1a,d0,a1)

### Application

Cables for indoor installation, but also suitable for outdoor use, with high transmission performance. Suitable for easily scalable and deployable network infrastructures: small business or large multi-purpose venues, supporting high-density system.



### Construction and features

Loose tube material: LSZH

Cable diameter: from 6,10 mm  $\pm$  0,2 to 6,50 mm  $\pm$  0,2

Cable weight: from 45 $\pm$ 10% kg/km to 50 $\pm$ 10% kg/km

### Mechanical features

Tensile Force Test Standard: IEC 60794-1-2-E1

Tensile Force Specified Value: 1000 N

Crush Resistance Test Standard: IEC 60794-1-2-E3

### Environmental Features

Temperature cycling Specified Value: Storage -40 to + 70 °C, Installation 0 to + 50 °C, Operation -20 to + 60 °C



N. FIBERS	50/125 OM2 ●	9/125 OS2 ●	50/125 OM4 ●	CPR RATING
8	111120-08	111130-08	111150-08*	B2ca (s1a, d0, a1)
12	111120-12	111130-12	111150-12*	B2ca (s1a, d0, a1)
24	111120-24	111130-24	111150-24*	B2ca (s1a, d0, a1)

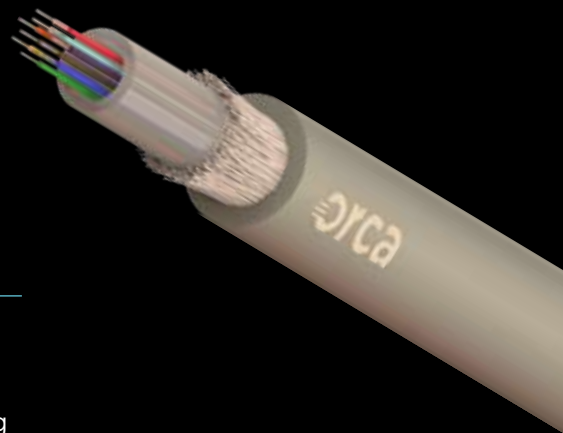
\* Also available in Erica Violet color, with code 111190 instead of 111150.

# 4-24 Fibers Central Tube Outdoor Type

## Nonmetallic Armored F.O. Cable HDPE

### Application

Dielectric Optical cables for outdoor installation, with high transmission performance. Suitable for easily scalable and deployable network infrastructures: small business or large multi-purpose venues, supporting high-density system.



### Construction and features

Loose tube material: PC+PBT

Cable diameter: from 5,5 mm  $\pm$  0,2 to 5,9 mm  $\pm$  0,2

Cable weight: from 25 $\pm$ 10% kg/km to 30 $\pm$ 10% kg/km

### Mechanical features

Tensile Force Test Standard: IEC 60794-1-2-E1

Tensile Force Specified Value: 1000 N

Crush Resistance Test Standard: IEC 60794-1-2-E3

### Environmental features

Temperature cycling Specified Value: Storage -40 to + 70 °C,  
Installation 0 to + 50 °C, Operation -20 to + 60 °C



N. FIBERS	62,5/125 OM1	50/125 OM2	50/125 OM3	50/125 OM4	9/125 OS2	CPR RATING
4	112112-04	112111-04	112114-04	112115-04*	112113-04	Fca
8	112112-08	112111-08	112114-08	112115-08*	112113-08	Fca
12	112112-12	112111-12	112114-12	112115-12*	112113-12	Fca
24	112112-24	112111-24	112114-24	112115-24*	112113-24	Fca

\* Also available in Erica Violet color, with code 112119 instead of 112115.

# 4-24 Fibers Central Tube Indoor Type

## Nonmetallic Armored F.O. Cable LSZH - B2CA (s1a, d0,a1)

### Application

Optical fiber is used as a physical transmission medium for data communication to provide support for network equipment; supports multiple wavelength channels, in four wavelength SWDM4 or dual wavelength BiDi technology. Ready for 400G Base-SRx in hi-speed datacentre application.



### Construction and features

Loose tube material: LSZH

Cable diameter: from 6,10 mm  $\pm$  0,2 to 6,50 mm  $\pm$  0,2

Cable weight: from 45 $\pm$ 10% kg/km to 50 $\pm$ 10% kg/km

### Mechanical features

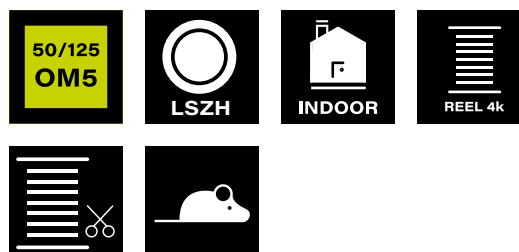
Tensile Force Test Standard: IEC 60794-1-2-E1

Tensile Force Specified Value: 1000 N

Crush Resistance Test Standard: IEC 60794-1-2-E3

### Environmental features

Temperature cycling Specified Value: Storage -40 to + 70° C, Installation 0 to + 50° C, Operation -20 to + 60° C



N. FIBERS	50/125 OM5 ●	CPR RATING
8	111160-08	B2ca (s1a, d0, a1)
12	111160-12	B2ca (s1a, d0, a1)
24	111160-24	B2ca (s1a, d0, a1)

# 4-24 Fibers Central Tube Indoor Type

## Nonmetallic Armored F.O. Cable LSZH – Eca

### Application

Optical fiber is used as a physical transmission medium for data communication to provide support for network equipment; supports multiple wavelength channels, in four wavelength SWDM4 or dual wavelength BiDi technology. Ready for 400G Base-SRx in hi-speed datacentre application.



### Construction and features

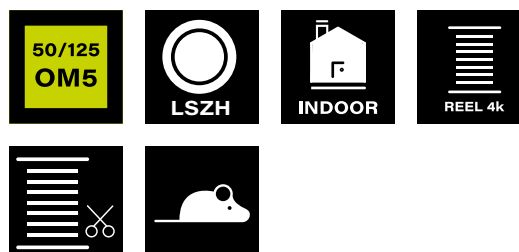
Loose tube material: PC+PBT  
Cable diameter: 5,5 mm  $\pm$  0,2 / 5,9 mm  $\pm$  0,2  
Cable weight: 34/38  $\pm$ 10% kg/km

### Mechanical features

Tensile Force Test Standard: IEC 60794-1-2-E1  
Tensile Force Specified Value: 1000 N  
Crush Resistance Test Standard: IEC 60794-1-2-E3

### Environmental features

Temperature cycling Specified Value: Storage -40 to + 70° C,  
Installation 0 to + 50° C, Operation -20 to + 60° C



N. FIBERS	50/125 OM5 ●	CPR RATING
4	111116-04	Eca
8	111116-08	Eca
12	111116-12	Eca
24	111116-24	Eca



# 4-24 Fibers Central Tube Outdoor Type

## Steel Armored F.O. Cable - HDPE

### Application

For external or direct wiring in the ground, in pipelines, pipes, collectors, on bridges and overpasses

### Construction and features

Loose tube material: PC+PBT

Cable diameter: from 7,20 mm  $\pm 0,2$  to 7,70 mm  $\pm 0,2$

Cable weight: from 57 $\pm 10\%$  kg/km to 61 $\pm 10\%$  kg/km

### Mechanical features

Tensile Force Test Standard: IEC 60794-1-2-E1

Tensile Force Specified Value: 500 N

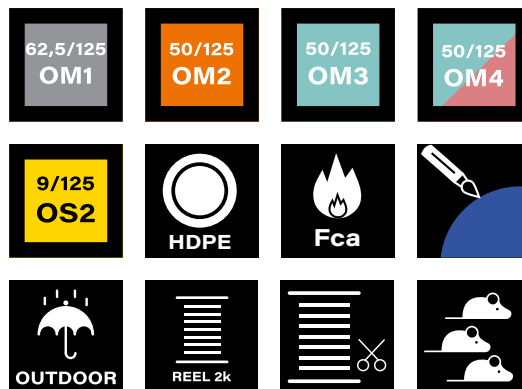
Crush Resistance Test Standard: IEC 60794-1-2-E3

### Environmental features

Temperature cycling Specified Value: Storage -30 to + 70 °C,

Installation -30 to + 70 °C, Operation -40 to + 70 °C

Temperature cycling delta:  $\Delta$  dB C 0.2 dB/km for SM fibers and  
BdB C 0.5 dB/km for MM fibers.



N. FIBERS	62,5/125 OM1	50/125 OM2	50/125 OM3	50/125 OM4	9/125 OS2	CPR RATING
4	112212-04	112211-04	112214-04	112215-04	112213-04	Fca
8	112212-08	112211-08	112214-08	112215-08	112213-08	Fca
12	112212-12	112211-12	112214-12	112215-12	112213-12	Fca
24	112212-24	112211-24	112214-24	112215-24	112213-24	Fca

# Fiber optic MPO/MPT

## High Density termination system

### Application

ORCA® MPO Optical Fiber Solution is an excellent solution for connecting devices, quickly and reliably.

### Characteristic

Pre terminated fiber cords, breakout cassettes and fiber assemblies complete a network.

The MPO connector is the most compact connector available on multi-strand fiber cables. MPO Cables are the most compact multi-fiber cable around. What's more, you get up to 12 fibers in a single cable run.

Run multi-strand fiber optic cables with fiber optic cables without worrying about expensive, time-consuming termination. Because they are pre-terminated, you can install and test them in the same day.

MTP/MPO trunk multifiber cable assemblies facilitate rapid deployment of high density backbone cabling in data centers and other high fiber environments, reducing network installation or reconfiguration time and cost. They are used to interconnect cassettes, panels or ruggedized MTP/MPO fanouts, spanning MDA, HDA and EDA zones.

### Material specification

Operation Temperature: -40 to 70 °C

### Compliance

Polarity Pair-Flipped AB/BA and Key Up/Down

MTP Female/Male

MPO Female/Male

C-Type

Allow easy migration from 10GbE to 40GbE or 100GbE

### Standard compliance and approvals

12 and 24 fiber MPO Trunk Cable meet or exceed the requirements of GR-409 core and UL/NEC rating for Riser and Plenum applications - US Conec MTP® connector, Senko MPO Plus premium connector  
ISO9001 Certificate; ROHS Compliant; IEC61754-7; IEC PAS 61300-3-35 Method B; TIA 605-4; EIA/TIA and Telecordia GR-326-CORE standards



CODE	DESCRIPTION	FIBER TYPE	N. FO
179020-04	MPO 19" Subrack 1 Unit Black for 4 Modules (empty)	All	48 max
179020-01	Blind Adapter Panel Black	-	-
150820-00	Cassette module or blind, MPO/MPO with 8 MPO slot adapters (unload)	All	-
150820-08	Cassette module or blind, MPO/MPO with 8 MPO adapters (load)	All	-
158254	Cassette module, 1xMPO to 6xLCdx	OM3	12
158264	Cassette module, 2xMPO to 12xLCdx	OM3	24
158255	Cassette module, 1xMPO to 6xLCdx	OM4	12
158265	Cassette module, 2xMPO to 12xLCdx	OM4	24
158253	Cassette module, 1xMPO to 6xLCdx	OS2	12
158263	Cassette module, 2xMPO to 12xLCdx	OS2	24
128524-12-02	MPO to 6xLCdx, 2m with 50cm fanout	OM3	12
128525-12-02	MPO to 6xLCdx, 2m with 50cm fanout	OM4	12
128523-12-02	MPO to 6xLCdx, 2m with 50cm fanout	OS2	12
120825-12-xx	TRUNK MPO/MPO 12FO – (m) - with test report and label	OM4	12
120825-12-xx-B2	TRUNK MPO/MPO 12FO – (m) – CPR B2ca - with test report and label	OM4	12
120824-12-xx	TRUNK MPO/MPO 12FO - (m) - with test report and label	OM3	12
120824-12-xx-B2	TRUNK MPO/MPO 12FO - (m) CPR B2ca - with test report and label	OM3	12
120824-12-xx	TRUNK MPO/MPO 12FO OS2 ELITE – (m) - with test report and label	OS2	12
120824-12-xx-B2	TRUNK MPO/MPO 12FO OS2 ELITE - CPR B2ca - (m) - with test report and label	OS2	12
120825-24-xx	TRUNK 2xMPO/MPO 24FO OM4 – (m) - with test report and label	OM4	2x12
120825-24-xx-B2	TRUNK 2xMPO/MPO 24FO OM4 - CPR B2ca - (m) - with test report and label	OM4	2x12
120824-24-xx	TRUNK 2xMPO/MPO 24FO OS2 ELITE – (m) - with test report and label	OS2	2x12
120824-24-xx-B2	TRUNK 2xMPO/MPO 24FO OS2 ELITE - CPR B2ca - (m) - with test report and label	OS2	2x12
EYEKIT	Pulling eye kit (one side)	-	-
MPO o MTP	Adapter MPO/MPO	All	12

All code already available in MTP version





# Fibers Optic Patch Panel

## Loaded/Unloaded



### Application

CATV and Multimedia; Telecommunication Networks; Data Processing Networks; Gigabit Ethernet; Interconnection for O/E Modules Industrial; Military and Medical

### Description

ORCA®'s 1U high Rack Mount Fiber optic Patch Panel allows for easy and quick arrangement of the fiber optic cables, also provide fiber organization and protection. It can contain up to 24 adapters and can be ordered loaded or unloaded. All components and the final product are designed and tested to conform the requirements of cable management in the fiber optic system.

### Specification

ORCA's fiber optics drawers feature 6, 12, 24-port capacity. It is 19" (1 unit) high and is rack mounted. Includes blank covers, cable management, cable grip, screws for adapters user's manual and 19" side brackets.

### General features

Good Exchangeability; Good Durability; Easy access for splicing

**Physical:** Realized in 15/10 steel painted; Surface finish Black RAL 9005; Height 1U, front uprights fixing; Type of mounting 19"; Rear Cable Gland and 3 blank cover included

**Dotation:** Holds up to 24 adapter; Duplex or simplex footprint version, ST, SC and LC; Cable management 24 Blank cover (SC, LC or ST); 48 adapter screw (only for SC and LC version); Rear Cable Gland and 3 blank cover included; Available with multimode and single mode adapters



CODE	FIBERS	FOOTPRINT	DESCRIPTION
170110-00N	48-max 96	24 SC DPX	Fiber Optic Drawer unloaded 24p SC DPX 1U with accessories
170110-06	48-max 96	24 SC DPX	Fiber Optic Drawer SC 24p DPX 1U with 6 adapters MultiMode OM1/2
170110-12	48-max 96	24 SC DPX	Fiber Optic Drawer SC 24p DPX 1U with 12 adapters MultiMode OM1/2
170110-24	48-max 96	24 SC DPX	Fiber Optic Drawer SC 24p DPX 1U with 24 adapters MultiMode OM1/2
170150-06	48-max 96	24 SC DPX	Fiber Optic Drawer SC 24p DPX 1U with 6 adapters MultiMode OM3/4
170150-12	48-max 96	24 SC DPX	Fiber Optic Drawer SC 24p DPX 1U with 12 adapters MultiMode OM3/4
170150-24	48-max 96	24 SC DPX	Fiber Optic Drawer SC 24p DPX 1U with 24 adapters MultiMode OM3/4
170130-06	48-max 96	24 SC DPX	Fiber Optic Drawer SC 24p DPX 1U with 6 adapters SingleMode OS2
170130-12	48-max 96	24 SC DPX	Fiber Optic Drawer SC 24p DPX 1U with 12 adapters SingleMode OS2
170130-24	48-max 96	24 SC DPX	Fiber Optic Drawer SC 24p DPX 1U with 24 adapters SingleMode OS2



CODE	MAX. FIBERS	FOOTPRINT	ADAPTERS	DESCRIPTION
170510-00G	24	ST SPX	Unloaded	
170510-00N	24	ST SPX	Unloaded	
170510-06	24	ST SPX	6	OM1/2 ST SPX
170510-12	24	ST SPX	12	OM1/2 ST SPX
170510-24	24	ST SPX	24	OM1/2 ST SPX
170530-06	24	ST SPX	6	OS2 ST SPX
170530-12	24	ST SPX	12	OS2 ST SPX
170530-24	24	ST SPX	24	OS2 ST SPX
170110-00N	48/96	SC DPX	Unloaded	
170110-06	48	SC DPX	6	OM1/2 SC DPX
170110-12	48	SC DPX	12	OM1/2 SC DPX
170110-24	48	SC DPX	24	OM1/2 SC DPX
170150-06	48	SC DPX	6	OM3/4 SC DPX
170150-12	48	SC DPX	12	OM3/4 SC DPX
170150-24	48	SC DPX	24	OM3/4 SC DPX
170130-06	48	SC DPX	6	OS2 SC DPX
170130-12	48	SC DPX	12	OS2 SC DPX
170130-24	48	SC DPX	24	OS2 SC DPX
170310-00N	24/48	SC SPX / LC DPX	Unloaded	
170310-06	24/48	SC SPX / LC DPX	6	OM1/2 LC DPX
170310-12	24/48	SC SPX / LC DPX	12	OM1/2 LC DPX
170310-24	24/48	SC SPX / LC DPX	24	OM1/2 LC DPX
170311-12	48/96	SC DPX	12	OM1/2 LC QUAD
170311-24	48/96	SC DPX	24	OM1/2 LC QUAD
170151-06	24/48	SC SPX / LC DPX	6	OM3/4 LC DPX
170151-12	24/48	SC SPX / LC DPX	12	OM3/4 LC DPX
170151-24	24/48	SC SPX / LC DPX	24	OM3/4 LC DPX
170330-06	24/48	SC SPX / LC DPX	6	OS2 LC DPX
170330-12	24/48	SC SPX / LC DPX	12	OS2 LC DPX
170330-24	24/48	SC SPX / LC DPX	24	OS2 LC DPX
170331-12	48/96	SC DPX	12	OS2 LC QUAD
170331-24	48/96	SC DPX	24	OS2 LC QUAD

# Fibers optic patch panel

## Loaded/Unloaded



### Application

CATV and Multimedia; Telecommunication Networks; Data Processing Networks; Gigabit Ethernet; Interconnection for O/E Modules Industrial; Military and Medical

### Description

ORCA®'s 1U high Rack Mount Fiber optic Patch Panel allows for easy and quick arrangement of the fiber optic cables, also provide fiber organization and protection. It can contain up to 24 adapters and can be ordered loaded or unloaded. All components and the final product are designed and tested to conform the requirements of cable management in the fiber optic system.

### Specification

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### General features

Good Exchangeability; Good Durability; Easy access for splicing.

**Physical:** Realized in 15/10 steel painted; Surface finish Black RAL 9005; Height 1U, front uprights fixing; Type of mounting 19"; Rear Cable Gland and 3 blank cover included

**Dotation:** Holds up to 24 adapter; Duplex or simplex footprint version, ST, SC and LC; Cable management 24 Blank cover (SC, LC or ST); 48 adapter screw (only for SC and LC version); Rear Cable Gland and 3 blank cover included; Available with multimode and single mode adapters



CODE	FIBERSS	FOOTPRINTS	DESCRIPTION
170510-00N	Max 24	24 ST/FC	Fiber Optic Drawer unloaded ST 24p 1U with accessories
170510-06	Max 24	25 ST/FC	Fiber Optic Drawer ST 24p 1U with 6 adapters MultiMode OM1/2
170510-12	Max 24	26 ST/FC	Fiber Optic Drawer ST 24p 1U with 12 adapters MultiMode OM1/2
170510-24	Max 24	27 ST/FC	Fiber Optic Drawer ST 24p 1U with 24 adapters MultiMode OM1/2
170530-06	Max 24	28 ST/FC	Fiber Optic Drawer ST 24p 1U with 6 adapters SingleMode OS2
170530-12	Max 24	29 ST/FC	Fiber Optic Drawer ST 24p 1U with 12 adapters SingleMode OS2
170530-24	Max 24	30 ST/FC	Fiber Optic Drawer ST 24p 1U with 24 adapters SingleMode OS2

# Fibers optic patch panel loaded/unloaded



## Application

CATV and Multimedia; Telecommunication Networks; Data Processing Networks; Gigabit Ethernet; Interconnection for O/E Modules Industrial; Military and Medical.

## Description

ORCA®'s 1U rack mount fiber optic Patch Panel allows for easy and quick arrangement of the fiber optic cables, also provide fiber organization and protection. It can contain up to 24 adapters and can be ordered unloaded or loaded on request. All components and the final product are designed and tested to conform the requirements of cable management in the fiber optic system.

## Specification

ORCA's fiber optics drawers feature 6, 12, 24 – SPX or DPX port capacity. It is 19" (1 unit) high and is rack mounted. Includes blank covers, cable management, cable grip, screws for adapters and 19" side brackets.

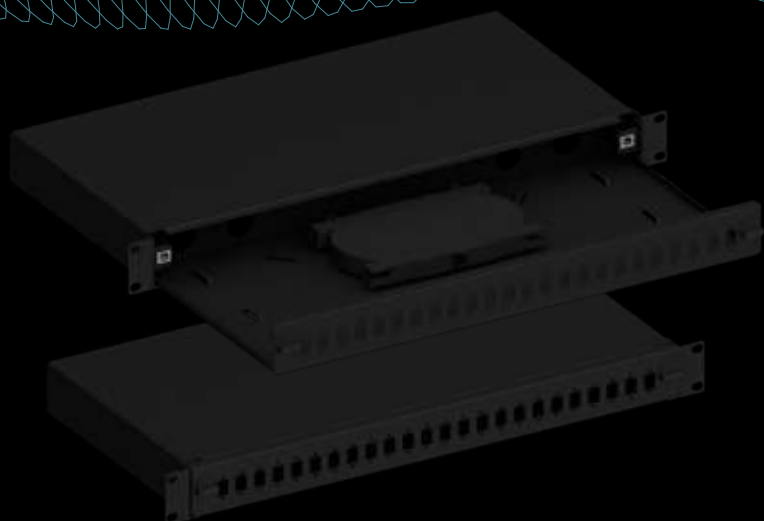
## General features

Realized in 10/10 steel painted, Surface finish Black RAL 9005, Height 1U, front uprights fixing.



CODE	DESCRIPTION
170110-00M	Fiber Optic "M" Drawer unloaded 24p SC DPX 1U with accessories
170310-00M	Fiber Optic "M" Drawer unloaded 24p SC SPX/LC DPX 1U with accessories

# Fibers optic LITE patch panel



## Application

CATV and Multimedia; Telecommunication Networks; Data Processing Networks; Gigabit Ethernet; Interconnection for O/E Modules Industrial; Military and Medical

## Description

ORCA®'s 1U rack mount fiber optic Patch Panel allows for easy and quick arrangement of the fiber optic cables, also provide fiber organization and protection. It can contain up to 24 adapters.



## Specification

ORCA's fiber optics drawers feature 6, 12, 24 – SPX or DPX port capacity. It is 19" (1 unit) high and is rack mounted. Includes blank covers, cable management, cable grip, splice tray, screws for adapters and 19" side brackets.

## General features

Cold Rolled Lite Steel Construction.  
Durable textured powder coat finish Black RAL 9005 - Compliant to RoHS.  
Special Plastic Quarter Turn lock for tray.  
Height 1U, front uprights fixing with Integrated Mounting Brackets  
Universal 19" rack compatibility.  
Screws for optical adapters suitable for the through holes on the front, with fixing on the plastic flange of the adapters.

CODE	DESCRIPTION
173100-00	Fiber Optic "LITE" Drawer unloaded 24p SC DPX 1U with accessories
173300-00	Fiber Optic "LITE" Drawer unloaded 24p SC SPX/LC DPX 1U with accessories



# Fiber Optic Terminal Wall Box



## Application

ORCA® Fiber Terminal Box is available for small capacity communication system, wall mounting, reasonable and compact structure, harmonized with machine room.

## Description

The terminal wall box it is the best solution for indoor optical cable distribution or termination. Provide fusion and storage appliance of fixing, stripping and earthing for optical cables. Whole range protected design for fiber lay to ensure the right bending radius. The Terminal Box include the fiber management accessories (splice tray and cable gland) and to avoid any unexpected damage to the fiber.

## Specification

The Fiber Optic Wall Box is composed of two part, one links with optical cables for fusion connection between optical cable and fiber pigtails and other links with patch cords.



## General features

Available unloaded

- Material:** Body in steel
- Colour:** Grey (black colour on request)
- Size:** 350x350x80mm
- Dotations:** Include the cable management accessories and splice tray, Key door locked



CODE	FIBERS	FOOTPRINT	DESCRIPTION
171000-24	Max capacity (core): 24 fiber (SC) - 48 fiber (LC)	24 SC SPX	Wall Box 24 port SC SPX / LC Unloaded

# Fiber Optic Desk Terminal Box



## Application

The SC SPX footprint accept the LC DPX SM or MM adapter.

## Description

ORCA® terminal optic box it is the best solution for indoor optical cable distribution or termination. The plastic case it is very light for a simple use. The FOTB fit the SC Simplex adapter (on request with ST and FC adapter). It is possible to buy the unloaded version (w/o Adapter) or the preloaded version with singlemode or multimode adapter. The Terminal Box include the fiber management accessories (splice tray and cable gland). The Fiber Optic Terminal Box can be applied in the straight trough or branch connection of indoor optical cable, available for distribution and terminal connection. Easy to use for desk or wall mounted applications for its less weight.

## Specification

Available unloaded or with SM or MM adapter



## General features

- Material:** Plastic Body, Low weight
- Colour:** White/ivory
- Size:** 285x125x50mm
- Dotation:** Include the shrinkable tube; Include the cable management accessories
- Optional:** The SC SPX Style box are available on request in ST and FC version, on project only.



CODE	FIBERS	FOOTPRINT	DESCRIPTION
171100-08	Max 16	8 SC SPX	Terminal Optic Box 8 port SC SPX / LC DPX - ivory (unloaded)
171310-08	Max 16	8 SC SPX	Terminal Optic Box 8 port SC SPX - ivory (with MM adapter)
171330-08	Max 16	8 SC SPX	Terminal Optic Box 8 port SC SPX - ivory (with SM adapter)

# Termination box DIN bar

## Loaded/Unloaded



### Application

ORCA® Fiber access termination box is able to hold up to 12 subscribers. It is used as a termination point for the feeder cable to connect with drop cable in FTTx network system. It integrates fiber splicing, plitting, distribution, storage and cable connection in one solid protection box.

### Specification

Integrated with splice cassette and cable management rods; Manage fibers in a reasonable fiber radius condition; Easy to maintain and extend the capacity; Fiber bend radius control more than 40mm; Suitable for the fusion splice or mechanical splice; Efficient cable management.

### General features

**Material:** Iron 10/10 coating realized  
**Colour:** Grey  
**Size:** 142 x 126 x 40 mm  
**Dotations:** Integrated with splice cassette and cable management rods  
**Design:** Water-proof design with IP-54 Protection level

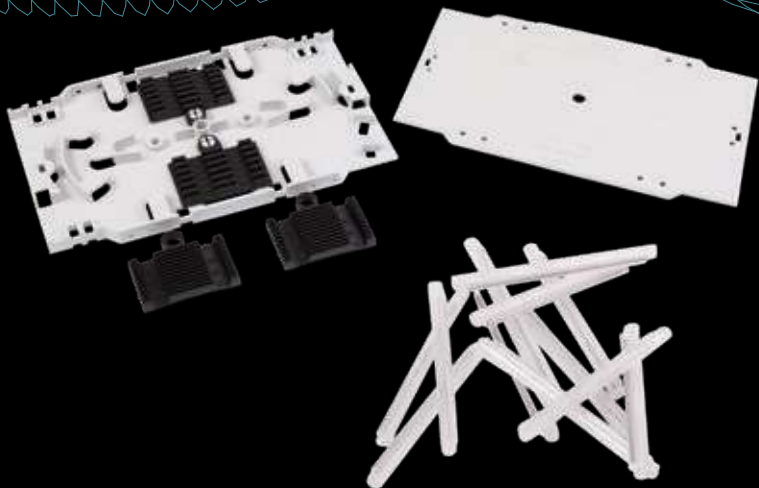
**Other features:** DIN bar profile Clips; 4 ports cable entrance for drop cable, 2 linear or 2 angled; Unloaded version with caps to cover empty hole and screws to fix optical adapters.



CODE	FIBERS	FOOTPRINT	DESCRIPTION
171100-06U-DIN	12 to 24	6 port SCdx footprint for SC duplex and LC quad	Terminal optic Box - DIN type - 6 SC DPX port, grey colour, unloaded, with 6 pcs black cover and 12 pcs fixing screw, no adapters.
171100-08U-DIN	8 to 16	8 port SCsx for SC simplex or LC duplex adapters	Terminal optic Box - DIN type - 8 SC SPX port, grey colour, unloaded, with 8 pcs black cover and 16 pcs fixing screw, no adapters



# Fibers splice tray and heat shrink tubes



## Application

CATV and Multimedia; Telecommunication Networks; Data Processing Networks; Gigabit Ethernet; Interconnection for O/E Modules; Industrial, Military and Medical

## Description

ORCA® offers splice tray for both wall-mount and rack mount enclosures. The splice trays are designed to provide maximum physical protection for fusion splicing. Fiber heat shrinkable tube is made of heat shrinkable polymer material. The transparent outer layer is convenient to detect whether the fiber joint is connected correctly.

## Specification

Slimline, stackable design allows higher splice density.

## General features

Good Exchangeability; Good Durability; Easy access for splicing; Easy to combine 2 splice trays, Ease of installation, With 2 double sided adhesive foam pad for fixing inside the drawer or hole  
**Size:** 167 x 103 x 13mm  
**Operating/ Storage Temperature:** -30°C to +75°C  
**Cable management:** Minimum fiber bending radius maintained with cable management



CODE	FIBERS	DESCRIPTION
170602-12	24	Fiber Splice Tray 12/24 slot
170600-00	12/24	Fiber optic slim splicer tray 12/24 FO - gray
170607-12	12/24	Fiber Splice Tray 12/24 slot - black
150000-40	1	Heat shrinkable sleeve 40mm – (conf. 120 Pz.)
150000-60	1	Heat shrinkable sleeve 60mm – (conf. 120 Pz.)



# Metallic Splitter

## 6-12 and 24 position



### Application

ORCA® in/outdoor fan-out kits are specifically designed for the termination of up to 4 to 12 pre-terminated cables. They provide the ultimate solution for a quick and easy field-/direct installation.

### Description

The kits provide the most compact, easy-to-install solution in its application range. The kits are available as a customized fully pre-terminated set, according to the customers' specifications, or as a basic unit for DIY purposes and applications.

### General features

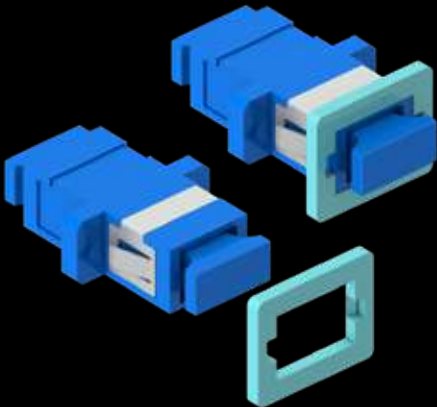
**Material:** Alluminium

**Size:** Cable Gland Size M12 – polyamide/nylon 66 (PA66)

**Screw Size** M2x3 – metallic

CODE	FIBERS	DESCRIPTION
150412-00	12	Metal Splitter 4-12 position with tang
150024-00	24	Metal Splitter 24 position with tang
150001-01		Pullink Eye for trunk cable

# Fast Fixing System for optical adapters



## Application

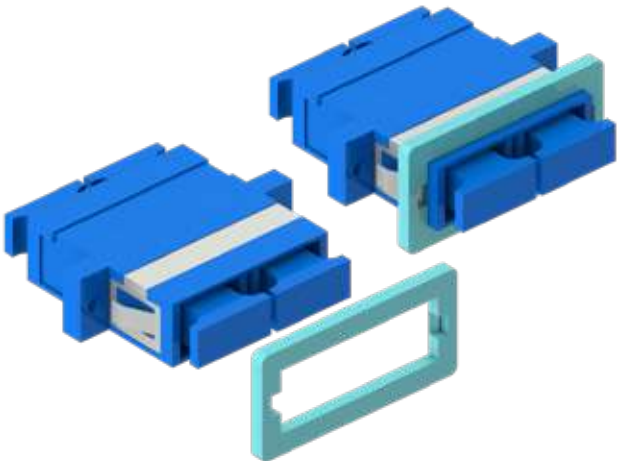
ORCAFIT, the innovative optical adapters fixing system for the front plate of your optical patch panel.  
It makes the adapter fixation stable, without using screws.

## Specification

Quick installation, easily removable, suitable for inside (hidden) and outside the optical drawer, SC simplex or SC duplex footprint.

## General features

- Made in plastic polymer
- Fast, secure, simple
- Ready for internal or external installation
- Black - or 12 color available (on request)
- Easy and toolless installation

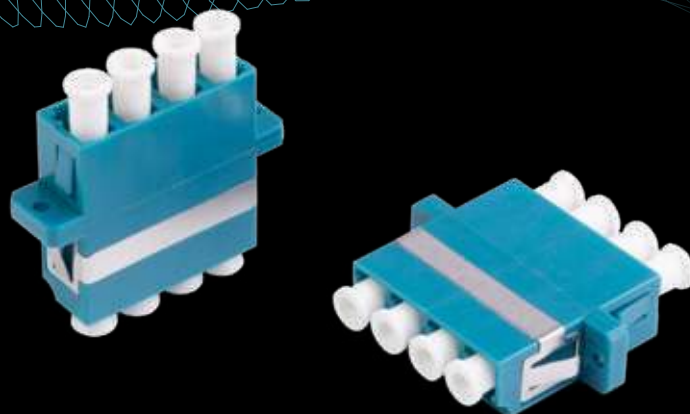


CODE	DESCRIPTION
140110-24	Fast Fixing System optical adapter SC/SPX footprint - (KIT 24Pcs)
140120-24	Fast Fixing System optical adapter SC/DPX footprint - (KIT 24Pcs)

# Optical Adapter

## Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial, Military and Medical



## Description

ORCA® fiber optic adapters are designed and manufactured with an ISO9001 system. A complete line of adapter for any telecommunications application. Available in MultiMode 50/125  $\mu\text{m}$ , OM2/OM3/OM4, OM1 62,5/125  $\mu\text{m}$  and OS2 9/125. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic or metal sleeve. Most standard cable assemblies are in stock for immediately ship, special and bulk packages are available and quickly achievable on request.

## General features

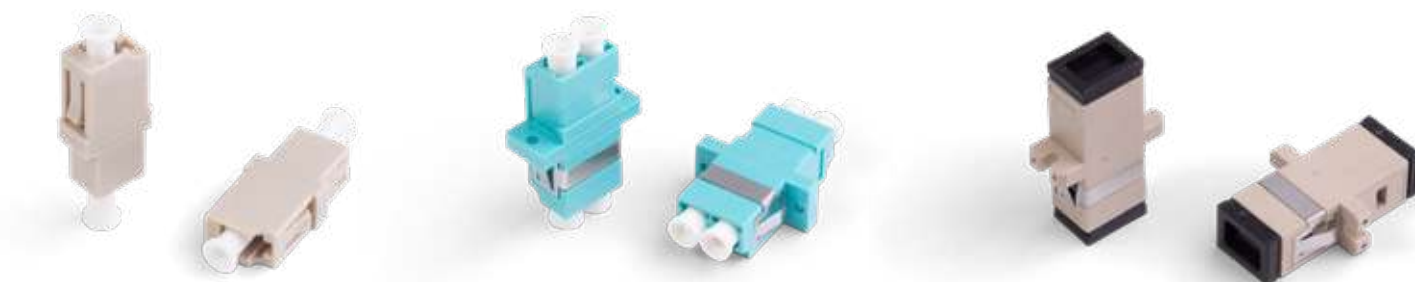
High Temperature Stability, High Precision Alignment, Compact design, Low Insertion Loss, High Back Reflection Loss, Hybrid configuration available, Clips or clips/screw mounting, Duplex or Simplex version.

## Specific features

ZrO2 zirconia - 125 $\mu\text{m}$  Ceramic Sleeve Technology, Plastic in standard colours or Metal housing.

## Standard Compliance and Approvals

ANSI, TIA/EIA, Telcordia, NTT and JIS Compliance





LC SIMPLEX	FIBER TYPE	MATERIAL	COLOUR
143321-00	62,5/125 OM1, 50/125 OM2	Plastic	Almond
140323-00	9/125 OS2	Plastic	Blue



LC DUPLEX	FIBER TYPE	MATERIAL	COLOUR
143311-00	62,5/125 OM1, 50/125 OM2	Plastic	Almond
140311-04	50/125 OM3/4	Plastic	Aqua
140311-05	50/125 OM4	Plastic	Magenta
140311-06	50/125 OM5	Plastic	Lime
140313-00	9/125 OS2	Plastic	Blue



LC DUPLEX FLANGLESS	FIBER TYPE	MATERIAL	COLOUR
140313-01	9/125 OS2	Plastic	Blue



LC QUAD	FIBER TYPE	MATERIAL	COLOUR
140331-00	62,5/125 OM1, 50/125 OM2	Plastic	Almond
140331-04	50/125 OM3/4	Plastic	Aqua
140331-05	50/125 OM4	Plastic	Magenta
140333-00	9/125 OS2	Plastic	Blue



SC SIMPLEX	FIBER TYPE	MATERIAL	COLOUR
140121-00	62,5/125 OM1, 50/125 OM2	Plastic	Almond
140112-03	50/125 OM3/4	Plastic	Aqua
140112-05	50/125 OM4	Plastic	Magenta
140112-06	50/125 OM5	Plastic	Lime
140123-00	9/125 OS2	Plastic	Blue



SC SIMPLEX FLANGLESS	FIBER TYPE	MATERIAL	COLOUR
140123-001	9/125 OS2	Plastic	Blue



SC DUPLEX	FIBER TYPE	MATERIAL	COLOUR
140111-00	62,5/125 OM1, 50/125 OM2	Plastic	Almond
140111-04	50/125 OM3/4	Plastic	Aqua
140111-05	50/125 OM4	Plastic	Magenta
140111-06	50/125 OM5	Plastic	Lime
140113-00	9/125 OS2	Plastic	Blue



SC-ST SIMPLEX	FIBER TYPE	MATERIAL	COLOUR
142123-00	9/125 OS2	Plastic	Blue





SC-ST DUPLEX	FIBER TYPE	MATERIAL	COLOUR
142111-00	62,5/125 OM1, 50/125 OM2	Plastic	Almond
142113-00	9/125 OS2	Plastic	Blue



ST SIMPLEX	FIBER TYPE	MATERIAL	COLOUR
140221-00	62,5/125 OM1, 50/125 OM2	Metal	Metal
131116-06	50/125 OM3/4	Metal	Metal
140223-00	9/125 OS2	Metal	Metal



ST DUPLEX	FIBER TYPE	MATERIAL	COLOUR
140211-00	62,5/125 OM1, 50/125 OM2	Plastic	Almond
140213-00	9/125 OS2	Metal	Metal



FC SIMPLEX	FIBER TYPE	MATERIAL	COLOUR
140521-00	62,5/125 OM1, 50/125 OM2	Metal	Metal
140523-00	9/125 OS2	Metal	Metal



MT DUPLEX	FIBER TYPE	MATERIAL	COLOUR
140411-00	62,5/125 OM1, 50/125 OM2	Plastic	Almond
140413-00	9/125 OS2	Plastic	Black



LC/APC DUPLEX	FIBER TYPE	MATERIAL	COLOUR
149313-00	9/125 OS2	Plastic	Green



LC/APC DUPLEX FLANGLESS	FIBER TYPE	MATERIAL	COLOUR
140222-00	9/125 OS2	Plastic	Green



LC/APC QUAD	FIBER TYPE	MATERIAL	COLOUR
149333-00	9/125 OS2	Plastic	Green



SC/APC SIMPLEX	FIBER TYPE	MATERIAL	COLOUR
900002-03	9/125 OS2	Plastic	Green



SC/APC SIMPLEX FLANGLESS	FIBER TYPE	MATERIAL	COLOUR
900002-01	9/125 OS2	Plastic	Green



SC/APC SIMPLEX FLANGLESSSR	FIBER TYPE	MATERIAL	COLOUR
900002-02	9/125 OS2	Plastic	Green



SC/APC DUPLEX	FIBER TYPE	MATERIAL	COLOUR
140913-00	9/125 OS2	Plastic	Green

# Ceramic Optical Connectors



## Application

A complete line of fiber connectors for any telecommunications application. Available in Multimode and Single-mode version

## Description

ORCA® connectors are designated and manufactured with an ISO9001 system. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard connectors are in stock for immediately ship, special and bulk packages are available and we make quickly on request.

## General features

High performance, Duplex clip available, Included 900µm and 3mm boots, Available in multimode or singlemode

## Specific features

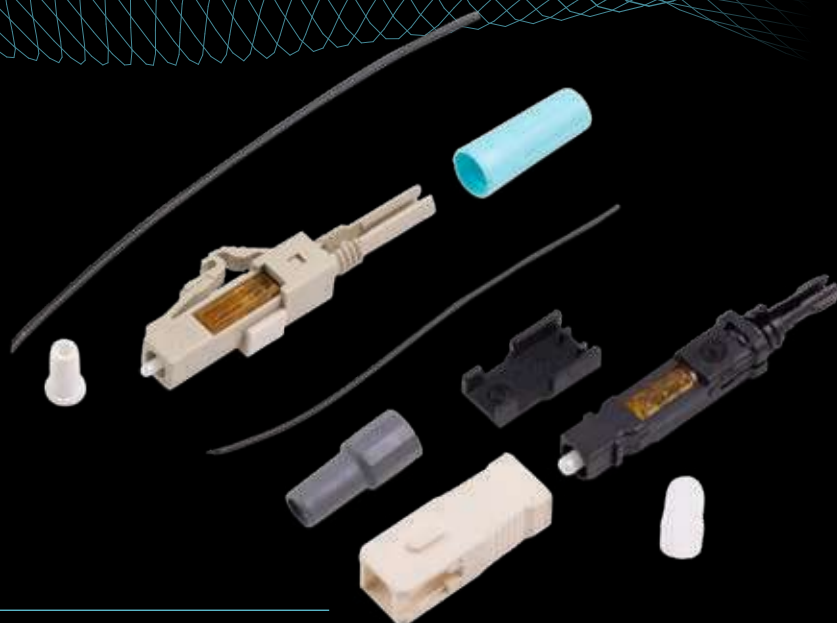
Pre-radius ceramic ferrule, Body polymer material, Anaerobic epoxy compatible, For 125µm cladding diameter.

## Standard Compliance and Approvals

IEC 60874-14, CECC BFOC 86260, EIA/TIA and Telcordia (Bellcore), ROHS Compliant

SC SIMPLEX	FIBER TYPE	MATERIAL	BOOT	COLOUR
130121-01	50/125 OM2	Ceramic/plastic	0,9/3,0mm	Almond
130123-01	9/125 OS2	Ceramic/plastic	0,9/3,0mm	Blue
130221-01	50/125 OM2	Ceramic/Nichel plated Brass	0,9/3,0mm	Metal
130223-01	9/125 OS2	Ceramic/Nichel plated Brass	0,9/3,0mm	Metal
LC SIMPLEX	FIBER TYPE	MATERIAL	BOOT	COLOUR
130321-01	50/125 OM2	Ceramic/plastic	3,0mm	Almond
130321-02	50/125 OM2	Ceramic/plastic	0,9mm	Almond
130323-01	9/125 OS2	Ceramic/plastic	3,0mm	Blue
130323-02	9/125 OS2	Ceramic/plastic	0,9mm	Blue
LC DUPLEX	FIBER TYPE	CERAMIC/PLASTIC	3,0MM	BLUE
130311-01	50/125 OM2	Ceramic/plastic	3,0mm	Almond
130313-01	9/125 OS2	Ceramic/plastic	3,0mm	Blue

# Field Assembly Optical Connector



## Application

Fiber Optic Telecommunication, Fiber Distribution Frame, FTTH Outlets, Optical Cable Interconnection

## Description

An LC type FAOC is a pre-polished and pre-assembled connector that holds a fiber in place and can be installed within 2 minutes using simple tools and can be recycled several times. It enables fast and on-site installation of 250/900µm, (2.0mm, 3.0mm and 1.6mm x 2.0mm, 2.0mm x 3.0mm) cable type connectors even when the user has no access to power.

## General features

Quick and easy fiber termination, Available to re-use, High success rate of connection, Superior optical characteristic value, Simple assembly process, Easy identification of connectors type by frame colour - black boot for all type. Ferrule Type Ceramic Zirconia.

## Standard Compliance and Approvals

TIA / EIA 604-10 [LC]

LC SIMPLEX	FIBER TYPE	MATERIAL	BOOT	COLOUR
131116-03	62,5/125 OM1	Plastic	250/900	Almond
131116-01	50/125 OM2	Plastic	250/900	Almond
131116-02	50/125 OM3/4	Plastic	250/900	Aqua
131116-00	9/125 OS2	Plastic	250/900	Blue
LC/APC SIMPLEX	FIBER TYPE	MATERIAL	BOOT	COLOUR
131116-06	9/125 OS2	Plastic	250/900	Green
SC SIMPLEX	FIBER TYPE	MATERIAL	BOOT	COLOUR
131115-03	62,5/125 OM1	Plastic	250/900	Almond
131115-01	50/125 OM2	Plastic	250/900	Almond
131115-02	50/125 OM3/4	Plastic	250/900	Aqua
131115-00	9/125 OS2	Plastic	250/900	Blue
SC/APC SIMPLEX	FIBER TYPE	MATERIAL	BOOT	COLOUR
131115-06	9/125 OS2	Plastic		Green

# Splice on Connectors by FiberFOX

## Application

Field-installable, Splice-on Connector for fiber optics termination, FTTx and Data Center



## Description

ORCA by Fox Splice-on Connector is quick, easy and reliable field assembly solution applying for all fiber network. As it is field installable, it eliminates excess cable in last mile field and ODF. And the most reliable connection method, splicing will guarantee you to have great connectivity & high stability. And Fox connector provides excellent compatibility with other brands of splicer. An engineer does not need to purchase additional splicer but can use any splicers you have in hand.

## General features

Improved splice loss & return loss, Compatible some other brands of splicer, Saving cost (no maintenance, no excess cable in ODF), Termination in the field, Easy Assembly

## Specific features

Enhanced tensile strength (exceeding 50N), No adhesive and crimping

## Standard Compliance and Approvals

IEC61754-4, KS C6974(F04), JIS C5973(F04), Compliant with Telcordia GR-326-core

LC SIMPLEX	FIBER TYPE	MATERIAL	BOOT	COLOUR
OC-ACC-SOC-LCOS2-00	9/125 OS2 - G657.A1	Ceramic/Plastic	2,0 mm	Blue
OC-ACC-SOC-LCOS2-01	9/125 OS2 - G657.A1	Ceramic/Plastic	2,0 mm	Blue
OC-ACC-SOC-LCOS2-02	9/125 OS2 - G657.A1	Ceramic/Plastic	0,9 mm	Blue
OC-ACC-SOC-LCOM3-00	50/125 OM2/3	Ceramic/Plastic	2,0 mm	Almond
OC-ACC-SOC-LCOM3-01	50/125 OM2/3	Ceramic/Plastic	2,0 mm	Almond
OC-ACC-SOC-LCOM3-02	50/125 OM2/3	Ceramic/Plastic	0,9 mm	Almond
OC-ACC-SOC-LCOM4-00	50/125 OM4	Ceramic/Plastic	2,0 mm	Almond
OC-ACC-SOC-LCOM4-01	50/125 OM4	Ceramic/Plastic	2,0 mm	Almond
OC-ACC-SOC-LCOM4-02	50/125 OM4	Ceramic/Plastic	0,9 mm	Almond



SC SIMPLEX	FIBER TYPE	MATERIAL	BOOT	COLOUR
OC-ACC-SOC-SCOS2-00	9/125 OS2 - G657.A1	Ceramic/Plastic	2,0 mm	Blue
OC-ACC-SOC-SCOS2-01	9/125 OS2 - G657.A1	Ceramic/Plastic	2,0 mm	Blue
OC-ACC-SOC-SCOS2-02	9/125 OS2 - G657.A1	Ceramic/Plastic	0,9 mm	Blue
OC-ACC-SOC-SCOM3-00	50/125 OM2/3	Ceramic/Plastic	2,0 mm	Almond
OC-ACC-SOC-SCOM3-01	50/125 OM2/3	Ceramic/Plastic	2,0 mm	Almond
OC-ACC-SOC-SCOM3-02	50/125 OM2/3	Ceramic/Plastic	0,9 mm	Almond
OC-ACC-SOC-SCOM4-00	50/125 OM4	Ceramic/Plastic	2,0 mm	Almond
OC-ACC-SOC-SCOM4-01	50/125 OM4	Ceramic/Plastic	2,0 mm	Almond
OC-ACC-SOC-SCOM4-02	50/125 OM4	Ceramic/Plastic	0,9 mm	Almond
ST SIMPLEX	FIBER TYPE	MATERIAL	BOOT	COLOUR
OC-ACC-SOC-STOS2-00	9/125 OS2 - G657.A1	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-STOS2-01	9/125 OS2 - G657.A1	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-STOS2-02	9/125 OS2 - G657.A1	Ceramic/Metal	0,9 mm	Metal
OC-ACC-SOC-STOM3-00	50/125 OM2/3	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-STOM3-01	50/125 OM2/3	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-STOM3-02	50/125 OM2/3	Ceramic/Metal	0,9 mm	Metal
OC-ACC-SOC-STOM4-00	50/125 OM4	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-STOM4-01	50/125 OM4	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-STOM4-02	50/125 OM4	Ceramic/Metal	0,9 mm	Metal
SC/APC SIMPLEX	FIBER TYPE	CERAMIC/PLASTIC	BOOT	COLOUR
OC-ACC-SOC-SCAPC-00	9/125 OS2 - G657.A1	Ceramic/Plastic	2,0 mm	Green
OC-ACC-SOC-SCAPC-01	9/125 OS2 - G657.A1	Ceramic/Plastic	2,0 mm	Green
OC-ACC-SOC-SCAPC-02	9/125 OS2 - G657.A1	Ceramic/Plastic	0,9 mm	Green
FC SIMPLEX	FIBER TYPE	CERAMIC/PLASTIC	BOOT	COLOUR
OC-ACC-SOC-FCOS2-00	9/125 OS2 - G657.A1	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-FCOS2-01	9/125 OS2 - G657.A1	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-FCOS2-02	9/125 OS2 - G657.A1	Ceramic/Metal	0,9 mm	Metal
OC-ACC-SOC-FCOM3-00	50/125 OM2/3	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-FCOM3-01	50/125 OM2/3	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-FCOM3-02	50/125 OM2/3	Ceramic/Metal	0,9 mm	Metal
OC-ACC-SOC-FCOM4-00	50/125 OM4	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-FCOM4-01	50/125 OM4	Ceramic/Metal	2,0 mm	Metal
OC-ACC-SOC-FCOM4-02	50/125 OM4	Ceramic/Metal	0,9 mm	Metal

# Fiber Optic Attenuator



## Application

Adapter (bulkhead) type female-male

## Description

ORCA® fiber optic attenuators are designed and manufactured with an ISO9001 system. A complete line of optic fiber attenuator for any telecommunications application. Available in Multimode and Single-mode version. Available connector styles include SC, ST, LC and FC. Feature adapter with ceramic or metal sleeve. Most standard attenuators are in stock for immediately ship, special and bulk packages are available and we make quickly on request.

## Specification

Plug-in-type, single channel

## General features

**Material:** Plastic or metal body with ceramic ferrule

**Stability:** Wavelength attenuation stability

**Durability:** (Well over 100mw) Low back reflection and attenuation tolerances

**Operating wavelength:** 1200nm-1600nm or 1310nm,1550nm

**Return loss:** >50dB(SPC); >55dB(UPC)

**Attenuation accuracy:**  $\pm 0,5$  (1dB-30dB) and  $\pm 1,0$  (11dB-30dB)

**Optional:** Optic Fiber Attenuators are available in singlemode, multimode version on request only

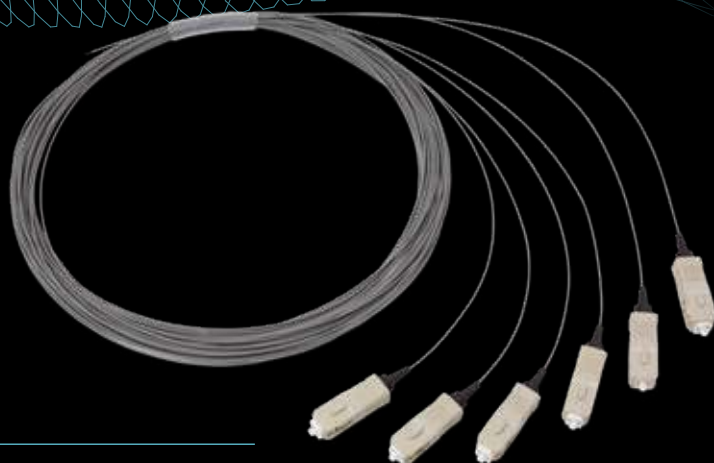
CODE	FIBERS	FOOTPRINTS	DESCRIPTION
150213-50	1	ST	ST Plug-type Attenuator (available from 1 to 30dB)
150113-50	1	SC	SC Plug-type Attenuator (available from 1 to 30dB)
150313-50	1	LC	LC Plug-type Attenuator (available from 1 to 30dB)
150513-50	1	FC	FC Plug-type Attenuator (available from 1 to 30dB)
150613-50	1	SC/APC	SC/APC Plug-type Attenuator (available from 1 to 30dB)
150713-50	1	FC/APC	FC/APC Plug-type Attenuator (available from 1 to 30dB)

# MultiMode Pigtail

## 62,5/125µm OM1

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



### Description

ORCA® pigtails are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each pigtail is factory terminated and tested. Manufactured using quality ORCA cable and connectors. Available in MultiMode 62,5/125µm OM1, MultiMode 50/125µm, OM2-OM3-OM4, and SingleMode 9/125µm OS2. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configurations are available and are quickly made on request.

### General features

High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request), Factory terminated/factory tested

### Specific features

ZrO2 zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, sheath LSZH

### Standard Compliance and Approvals

IEC 60874-07, Bellcore/Telcordia GR-326(reduced), IEC60793-2-50 A1a, IEC60793-2-10 A1a, EIA/TIA 568, ISO/IEC 11801 2nd Ed., EN 50173, CECC, EIA/TIA 492AAAB, ITU-T G.651, RoHS 2002/95/EC



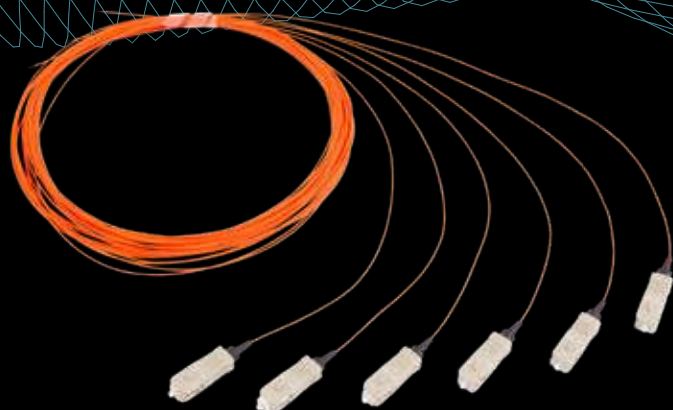
CODE	CONNECTOR	LENGTH (m)	PACKING
120102-02	SC	2	6 pz.
120202-02	ST	2	6 pz.
120302-02	LC	2	6 pz.
120502-02	FC	2	6 pz.
120412-F2	MTRJ/M	2	6 pz.
120412-M2	MTRJ/F	2	6 pz.

# MultiMode Pigtail

## 50/125µm OM2

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



### Description

ORCA® pigtails are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each pigtail is factory terminated and tested. Manufactured using quality ORCA cable and connectors. Available in MultiMode 62,5/125µm OM1, MultiMode 50/125µm, OM2-OM3-OM4, and SingleMode 9/125 µm OS2. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configurations are available and are quickly made on request.

### General features

High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request), Factory terminated/factory tested

### Specific features

ZrO2 zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, sheath LSZH

### Standard Compliance and Approvals

IEC 60874-07, Bellcore/Telcordia GR-326(reduced), IEC60793-2-50 A1a, IEC60793-2-10 A1a, EIA/TIA 568, ISO/IEC 11801 2nd Ed., EN 50173, CECC, EIA/TIA 492AAAB, ITU-T G.651, RoHS 2002/95/EC



CODE	CONNECTOR	LENGTH (m)	PACKING
120101-02	SC	2	6 pz.
120201-02	ST	2	6 pz.
120301-02	LC	2	6 pz.
120501-02	FC	2	6 pz.
120411-F2	MTRJ/M	2	6 pz.
120411-M2	MTRJ/F	2	6 pz.

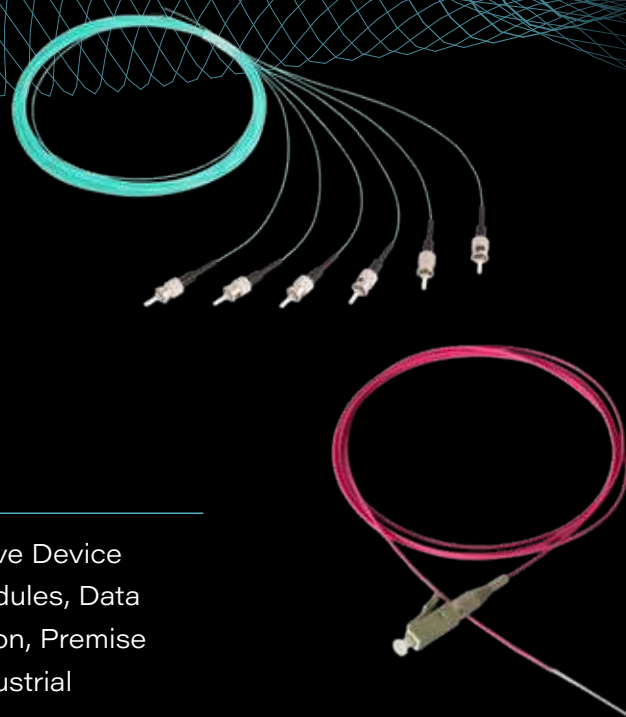


# MultiMode Pigtail

## 50/125μm OM3 - OM4

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



### Description

ORCA® pigtails are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each pigtail is factory terminated and tested. Manufactured using quality ORCA cable and connectors. Available in MultiMode 62,5/125μm OM1, MultiMode 50/125μm, OM2-OM3-OM4, and SingleMode 9/125 μm OS2. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configurations are available and are quickly made on request.

### General features

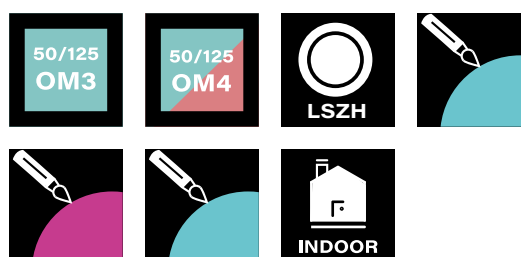
High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900μm buffered fiber assemblies, Duplex (or simplex on request), Factory terminated/factory tested

### Specific features

ZrO<sub>2</sub> zirconia - 125μm Ceramic Ferrule Technology, semi-tight cable constructions, sheath LSZH

### Standard Compliance and Approvals

IEC 60874-07, Bellcore/Telcordia GR-326(reduced), IEC60793-2-50 A1a, IEC60793-2-10 A1a, EIA/TIA 568, ISO/IEC 11801 2nd Ed., EN 50173, CECC, EIA/TIA 492AAAB, ITU-T G.651, RoHS 2002/95/EC



CONNECTOR	LENGTH (m)	PACKING	50/125μ OM3	50/125μ OM4
SC	2	6 pz.	120104-02	120105-02*
ST	2	6 pz.	120204-02	120205-02*
LC	2	6 pz.	120304-02	120305-02*
FC	2	6 pz.	120504-02	120505-02*
MTRJ/M	2	6 pz.	120414-F2	-
MTRJ/F	2	6 pz.	120414-M2	-

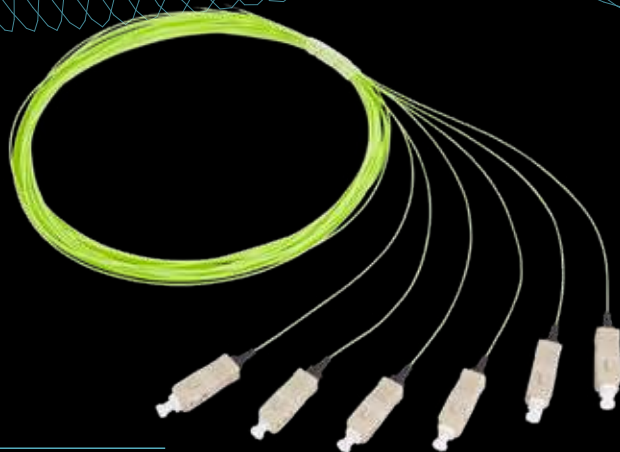
\* Also available in Erica Violet color, with the final code number 9 instead of 5.

# MultiMode Pigtail

## 50/125µm OM5

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



### Description

ORCA® pigtails are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each pigtail is factory terminated and tested. Manufactured using quality ORCA cable and connectors.

Available connector styles include SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configurations are available and are quickly made on request.

### General features

High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request), Factory terminated/factory tested.

### Specific features

ZrO2 zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, sheath LSZH

### Standard Compliance and Approvals

IEC 60874-20, CECC, Bellcore / Telcordia GR-326 (reduced), EIA/TIA 568, ISO/IEC 11801:2002 2nd Ed., EN 50173-1:2002, ITU-T G.651, IEC 60793-2-50 B1.1, IEC 60793-2-10 A1a, EIA/TIA 492AAAB. All components are RoHS compliant and do not and will not contain any restricted hazardous substances as detailed in RoHS 2002/95/EC



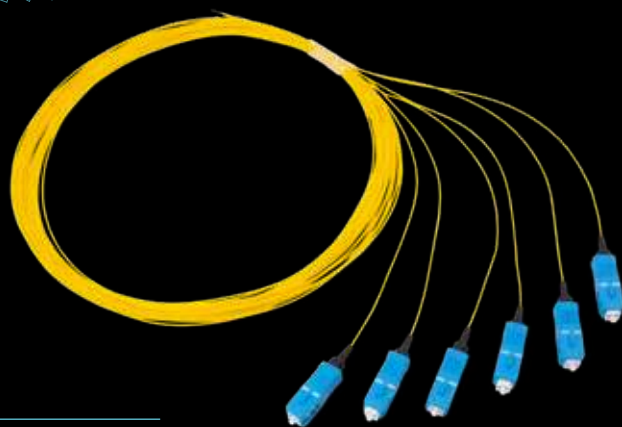
CODE	CONNECTOR	LENGTH (m)	PACKING
120116-02	SC	2	6 pz.
120216-02	ST	2	6 pz.
120316-02	LC	2	6 pz.
120516-02	FC	2	6 pz.

# SingleMode Pigtail

## 9/125µm OS2

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



### Description

ORCA® pigtails are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each pigtail is factory terminated and tested. Manufactured using quality ORCA cable and connectors. Available in MultiMode 62,5/125µm OM1, MultiMode 50/125µm, OM2-OM3-OM4, and SingleMode 9/125µm OS2. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configurations are available and are quickly made on request.

### Features

High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm

buffered fiber assemblies, Duplex (or simplex on request), Factory terminated/factory tested.

ZrO2 zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, sheath LSZH

### Standard Compliance and Approvals

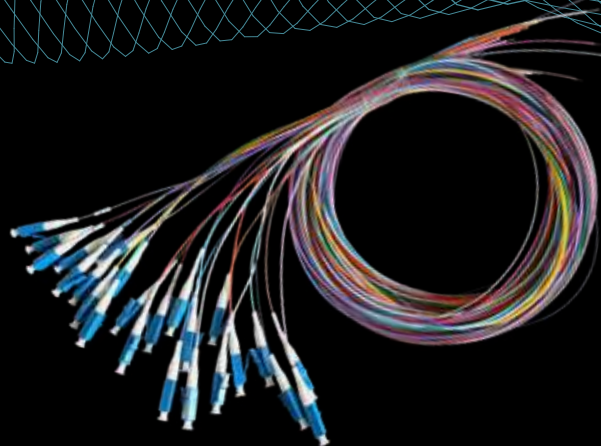
IEC 60874-07, Bellcore/Telcordia GR-326(reduced), IEC60793-2-50 A1a, IEC60793-2-10 A1a, EIA/TIA 568, ISO/IEC 11801 2nd Ed., EN 50173, CECC, EIA/TIA 492AAAB, ITU-T G.651, RoHS 2002/95/EC



CODE	CONNECTOR	LENGTH (m)	PACKING
120103-02	SC	2	6 pz.
120203-02	ST	2	6 pz.
120303-02	LC	2	6 pz.
120503-02	FC	2	6 pz.
120413-F2	MTRJ/M	2	6 pz.
120413-M2	MTRJ/F	2	6 pz.
120728-02	SC/APC	2	6 pz.
120B28-02-temp	ST/APC	2	6 pz.
120A28-02-temp	LC/APC	2	6 pz.



# MultiMode and SingleMode Pigtail Kit



## Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical

## Description

A complete line of cable assemblies for any telecommunications application. Manufactured using quality ORCA cable and connectors. Available in MultiMode 62,5/125µm OM1, MultiMode 50/125µm, OM2-OM3-OM4, and SingleMode 9/125 µm OS2. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules.

## General features

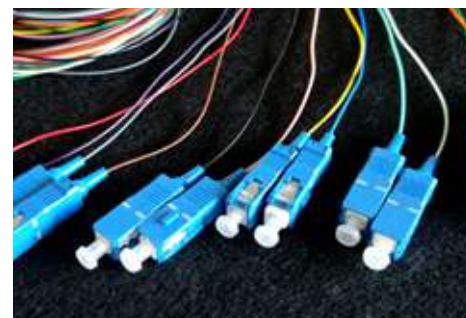
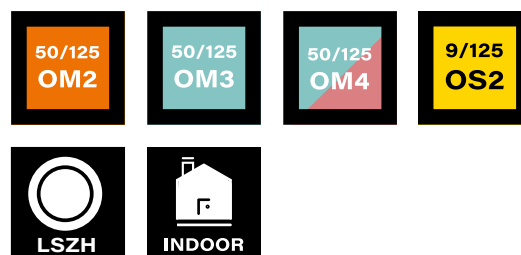
High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request), Factory terminated/factory tested

## Specific features

ZrO2 zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, sheath LSZH

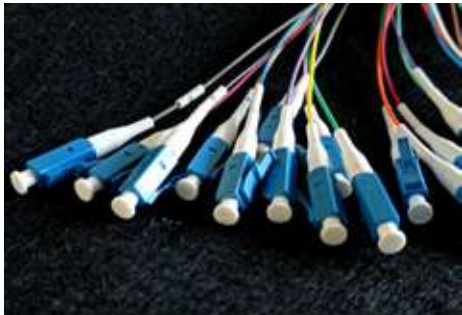
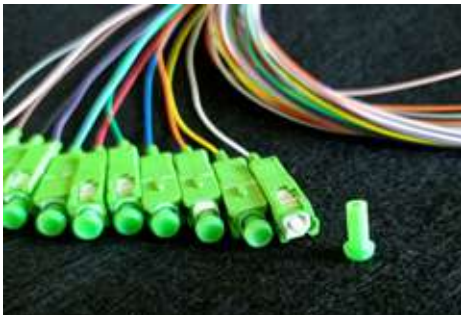
## Standard Compliance and Approvals

IEC 60874-07, Bellcore/Telcordia GR-326(reduced), IEC60793-2-50 A1a, IEC60793-2-10 A1a, EIA/TIA 568, ISO/IEC 11801 2nd Ed., EN 50173, CECC, EIA/TIA 492AAAB, ITU-T G.651, RoHS 2002/95/EC





	LENGTH (m)	CONNECTOR	COLOUR	CODE
50/125µm OM2	2	SC	Kit 12 colours	120101-02-K12
	2	ST	Kit 12 colours	120201-02-K12
	2	LC	Kit 12 colours	120301-02-K12
50/125µm OM3	2	SC	Kit 12 colours	120104-02-K12
	2	ST	Kit 12 colours	120204-02-K12
	2	LC	Kit 12 colours	120304-02-K12
50/125µm OM4	2	SC	Kit 12 colours	120105-02-K12
	2	ST	Kit 12 colours	120205-02-K12
	2	LC	Kit 12 colours	120305-02-K12
9/125µm OS2	2	SC	Kit 12 colours	120103-02-K12
	2	ST	Kit 12 colours	120203-02-K12
	2	LC	Kit 12 colours	120303-02-K12
	2	SC/APC	Kit 12 colours	120728-12
	2	ST/APC	Kit 12 colours	120B28-12
	2	LC/APC	Kit 12 colours	120A28-12

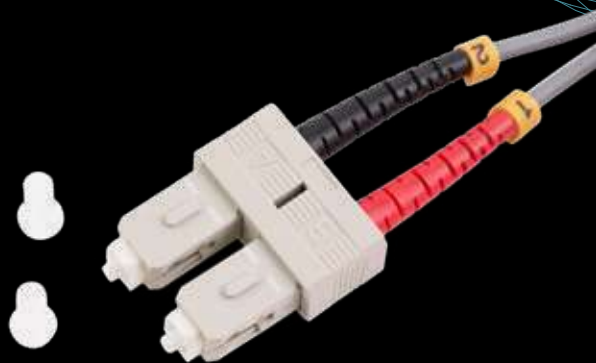


# Optical Patch Cord

## 62,5/125µm OM1

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



### Description

ORCA® patch cords are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each patch cord is factory-terminated and tested. Manufactured using quality ORCA cable and connectors. Available in MultiMode 50/125 µm, OM2/OM3/OM4, OM1 62,5/125 µm and OS2 9/125. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configuration of connectors or length are available and quickly achievable on request.

### General features

High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request)

### Specific features

ZrO2 zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, 1,8 +/-0,2 mm zipcord (or 3 or 1,6 mm on request) sheath LSZH

### Standard Compliance and Approvals

TIE/EIA 568-A Compliant, Telcordia GR-326-CORE



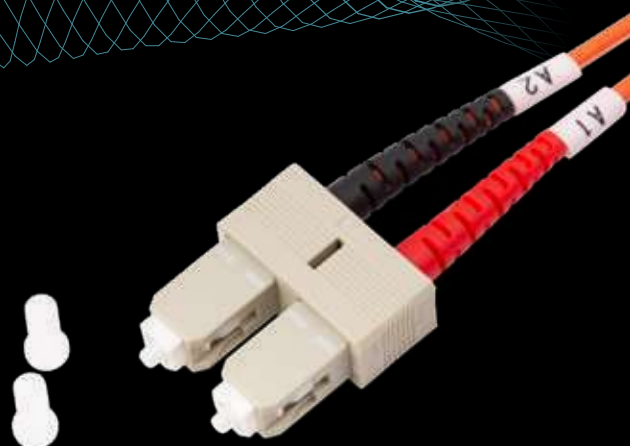
LENGTH (m)	SC-SC ●	SC-ST ●	LC-LC ●	LC-ST ●	LC-SC ●	ST-ST ●	FC-FC ●
1	121112-01	121212-01	123312-01	123212-01	123112-01	122212-01	125512-01
2	121112-02	121212-02	123312-02	123212-02	123112-02	122212-02	125512-02
3	121112-03	121212-03	123312-03	123212-03	123112-03	122212-03	125512-03
5	121112-05	121212-05	123312-05	123212-05	123112-05	122212-05	125512-05
10	121112-10	121212-10	123312-10	123212-10	123112-10	122212-10	125512-10

# Optical Patch Cord

## 50/125µm OM2

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



### Description

ORCA® patch cords are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each patch cord is factory-terminated and tested. Manufactured using quality ORCA cable and connectors. Available in MultiMode 50/125 µm, OM2/OM3/OM4, OM1 62,5/125 µm and OS2 9/125. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configuration of connectors or lenght are available and quickly achievable on request.

### General features

High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request)

### Specific features

ZrO2 zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, 1,8 +/-0,2 mm zipcord (or 3 or 1,6 mm on request) sheath LSZH

### Standard Compliance and Approvals

TIE/EIA 568-A Compliant, Telcordia GR-326-CORE



LENGTH (m)	SC-SC	SC-ST	LC-LC	LC-ST	LC-SC	ST-ST	FC-FC
1	121111-01	121211-01	123311-01	123211-01	123111-01	122211-01	125511-01
2	121111-02	121211-02	123311-02	123211-02	123111-02	122211-02	125511-02
3	121111-03	121211-03	123311-03	123211-03	123111-03	122211-03	125511-03
5	121111-05	121211-05	123311-05	123211-05	123111-05	122211-05	125511-05
10	121111-10	121211-10	123311-10	123211-10	123111-10	122211-10	125511-10

# Optical Patch Cord

## 50/125µm OM3

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode (ATM), Industrial and Medical



### Description

ORCA® patch cords are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each patch cord is factory-terminated and tested. Manufactured using quality ORCA cable and connectors. Available in MultiMode 50/125 µm, OM2/OM3/OM4, OM1 62,5/125 µm and OS2 9/125. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediate ship, special configuration of connectors or length are available and quickly achievable on request.

### General features

High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request)

### Specific features

ZrO2 zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, 1,8 +/-0,2 mm zipcord (or 3 or 1,6 mm on request) sheath LSZH

### Standard Compliance and Approvals

TIE/EIA 568-A Compliant, Telcordia GR-326-CORE



LENGTH (m)	SC-SC	SC-ST	LC-LC	LC-ST	LC-SC	ST-ST	FC-FC
1	121114-01	121214-01	123314-01	123214-01	123114-01	122214-01	125514-01
2	121114-02	121214-02	123314-02	123214-02	123114-02	122214-02	125514-02
3	121114-03	121214-03	123314-03	123214-03	123114-03	122214-03	125514-03
5	121114-05	121214-05	123314-05	123214-05	123114-05	122214-05	125514-05
10	121114-10	121214-10	123314-10	123214-10	123114-10	122214-10	125514-10

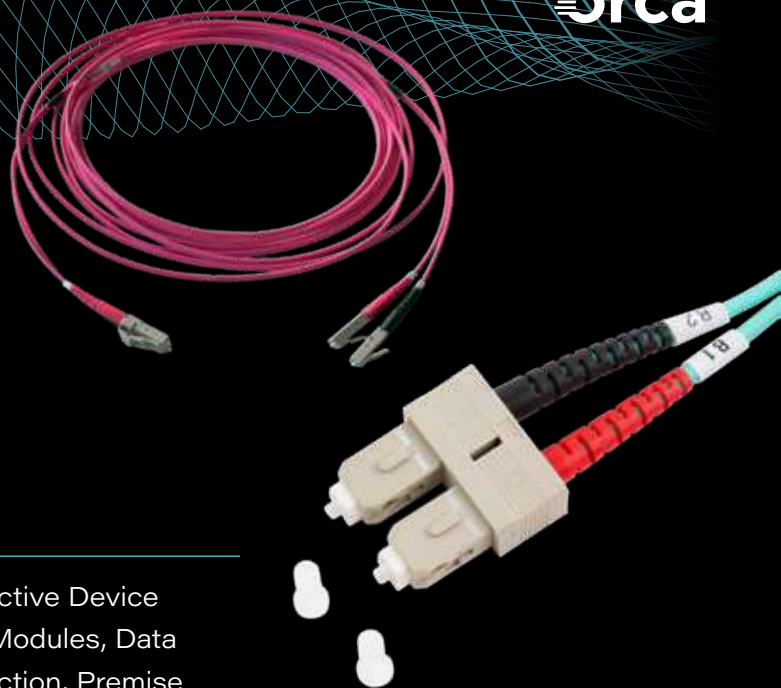


# Optical Patch Cord

## 50/125µm OM4

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



### Description

ORCA® patch cords are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each patch cord is factory-terminated and tested.

Manufactured using quality ORCA cable and connectors. Available in MultiMode 50/125 µm, OM2/OM3/OM4, OM1 62,5/125 µm and OS2 9/125. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configuration of connectors or length are available and quickly achievable on request.

### General features

High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request)

### Specific features

ZrO<sub>2</sub> zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, 1,8 +/-0,2 mm zipcord (or 3 or 1,6 mm on request) sheath LSZH

### Standard Compliance and Approvals

TIE/EIA 568-A Compliant, Telcordia GR-326-CORE



LENGTH (m)	SC-SC	SC-ST	LC-LC	LC-ST	LC-SC	ST-ST	FC-FC
1	121115-01	121215-01	123315-01	123215-01	123115-01	122215-01	125515-01
2	121115-02	121215-02	123315-02	123215-02	123115-02	122215-02	125515-02
3	121115-03	121215-03	123315-03	123215-03	123115-03	122215-03	125515-03
9	121115-05	121215-05	123315-05	123215-05	123115-05	122215-05	125515-05
10	121115-10	121215-10	123315-10	123215-10	123115-10	122215-10	125515-10

Also available in Erica Violet color, with the final code number 9 instead of 5.

# Optical Patch Cord

## 50/125µm OM5

### Application

Hi-quality Multimedia, Telecommunication Networks, Active Device Termination, 400 Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Hi-Speed Optical Switch Interframe Connection, Datacenter, Industrial and Medical.



### Description

ORCA® patch cords are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application.

Each patch cord is factoryterminated and tested. Manufactured using quality ORCA cable and connectors.

Available connector styles include SC, ST, LC and FC.

Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configuration of connectors or length are available and quickly archivable on request.

### General features

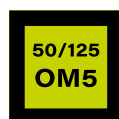
High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request)

### Specific features

ZrO<sub>2</sub> zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, 1,8 +/-0,2 mm zipcord (or 3 or 1,6 mm on request) sheath LSZH

### Standard Compliance and Approvals

ISO/IEC 11801, EN 50173, EIA/TIA 568, IEEE 802, IEC 61754-2, IEC 60874-10, IEC 61754-20, EIA/ TIA 604-10, ANSI/ICEA-596, IEC 60793, IEC 60794, EIA/TIA IEC 60331, IEC 60332, ITU-T G.651, Bellcore/Telcordia GR-409-CORE. All components are RoHS compliant and do not and will not contain any restricted hazardous substances as detailed in RoHS 2002/95/EC



LENGTH (m)	SC-SC ●	LC-LC ●	LC-SC ●
1	121116-01	123316-01	123116-01
2	121116-02	123316-02	123116-02
3	121116-03	123316-03	123116-03
5	121116-05	123316-05	123116-05
10	121116-10	123316-10	123116-10

# Optical Patch Cord

## 9/125µm OS2

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



### Description

ORCA® patch cords are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each patch cord is factory-terminated and tested.

Manufactured using quality ORCA cable and connectors. Available in MultiMode 50/125 µm, OM2/OM3/OM4, OM1 62,5/125 µm and OS2 9/125. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configuration of connectors or length are available and quickly achievable on request.

### General features

High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request)

### Specific features

ZrO<sub>2</sub> zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, 1,8 +/-0,2 mm zipcord (or 3 or 1,6 mm on request) sheath LSZH

### Standard Compliance and Approvals

TIE/EIA 568-A Compliant, Telcordia GR-326-CORE



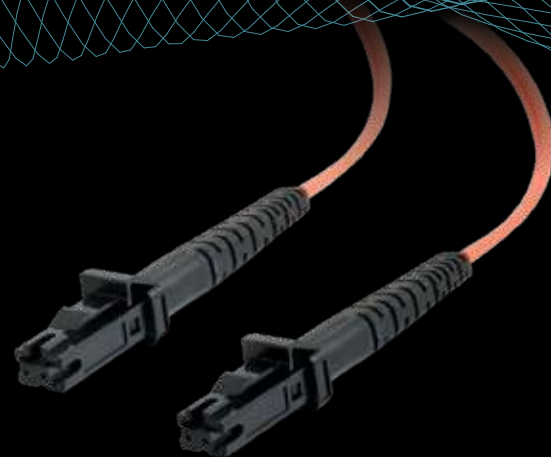
LENGTH (m)	SC-SC ●	SC-ST ●	LC-LC ●	LC-ST ●	LC-SC ●	ST-ST ●	FC-FC ●
1	121113-01	121213-01	123313-01	123213-01	123113-01	122213-01	125513-01
2	121113-02	121213-02	123313-02	123213-02	123113-02	122213-02	125513-02
3	121113-03	121213-03	123313-03	123213-03	123113-03	122213-03	125513-03
5	121113-05	121213-05	123313-05	123213-05	123113-05	122213-05	125513-05
10	121113-10	121213-10	123313-10	123213-10	123113-10	122213-10	125513-10

# Optical Patch Cord

## MTRJ Variation

### Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



### Description

ORCA® patch cords are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each patch cord is factory-terminated and tested. Manufactured using quality ORCA cable and connectors. Available in MultiMode 50/125 µm, OM2/OM3/OM4, OM1 62,5/125 µm and OS2 9/125. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configuration of connectors or length are available and quickly achievable on request.

### General features

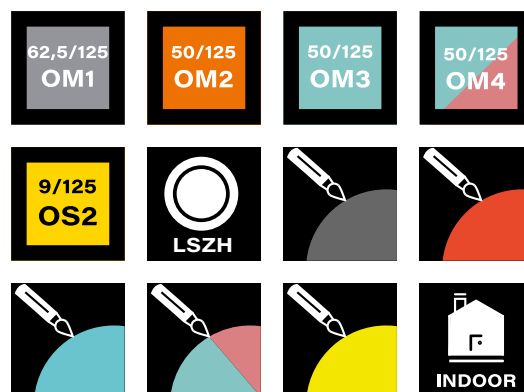
High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900µm buffered fiber assemblies, Duplex (or simplex on request)

### Specific features

ZrO2 zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, 1,8 +/-0,2 mm zipcord (or 3 or 1,6 mm on request) sheath LSZH

### Standard Compliance and Approvals

TIE/EIA 568-A Compliant, Telcordia GR-326-CORE





	LENGTH (m)	MTRJ-MTRJ	MTRJ-ST	MTRJ-SC	MTRJ-LC
62,5/125µm OM1	1	124412-01	124212-01	124112-01	124312-01
	2	124412-02	124212-02	124112-02	124312-02
	3	124412-03	124212-03	124112-03	124312-03
	5	124412-05	124212-05	124112-05	124312-05
	10	124412-10	124212-10	124112-10	124312-10
50/125µm OM2	1	124411-01	124211-01	124111-01	124311-01
	2	124411-02	124211-02	124111-02	124311-02
	3	124411-03	124211-03	124111-03	124311-03
	5	124411-05	124211-05	124111-05	124311-05
	10	124411-10	124211-10	124111-10	124311-10
50/125µm OM3	1	124414-01	124214-01	124114-01	124314-01
	2	124414-02	124214-02	124114-02	124314-02
	3	124414-03	124214-03	124114-03	124314-03
	5	124414-05	124214-05	124114-05	124314-05
	10	124414-10	124214-10	124114-10	124314-10
50/125µm OM4	1	124414-01	124214-01	124114-01	124314-01
	2	124414-02	124214-02	124114-02	124314-02
	3	124414-03	124214-03	124114-03	124314-03
	5	124414-05	124214-05	124114-05	124314-05
	10	124414-10	124214-10	124114-10	124314-10
9/125µm OS2	1	124413-01	124213-01	124113-01	124313-01
	2	124413-02	124213-02	124113-02	124313-02
	3	124413-03	124213-03	124113-03	124313-03
	5	124413-05	124213-05	124113-05	124313-05
	10	124413-10	124213-10	124113-10	124313-10

# Armored Patch Cord

## Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial, Military and Medical

## Description

ORCA® patch cords are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each patch cord is factory-terminated and tested. Manufactured using quality ORCA cable and connectors. Available in MultiMode 50/125 µm, OM2/OM3/OM4, OM1 62,5/125 µm and OS2 9/125.

Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configuration of connectors or length are available and quickly achievable on request.

## General features

Manufactured by armoured optical cable, flexible metal tube protect the fiber optic, High press resistant strength, stamp resistant and anti bite of rat and ant, Small diameter, bend resistant 25mm radius and optimum flexible, Aramid yarn reinforced optical cable has superior elongate resistant, and secured and reliable when connect it with fiber optic connector, Can put directly at various environment indoor, no need for using protection conduct, and convenient for network operation and maintenance. Duplex (or simplex on request).

## Specific features

ZrO2 zirconia - 125µm Ceramic Ferrule Technology, semi-tight cable constructions, 900µm buffered fiber assemblies, 3,2 mm armored zipcord sheath LSZH, Crusch Res. 3000N/10cm, tensile strength 200N

## Standard Compliance and Approvals

TIE/EIA 568-A Compliant, Telcordia GR-326-CORE



Standard colour



On project



	LENGTH (m)	SC-SC	LC-LC
62,5/125µm OM1	1	181112-01	183312-01
	2	181112-02	183312-03
	3	181112-03	183312-03
	5	181112-05	183312-05
	10	181112-10	183312-10
50/125µm OM2	1	181111-01	183311-01
	2	181111-02	183311-02
	3	181111-03	183311-03
	5	181111-05	183311-05
	10	181111-10	183311-10
50/125µm OM3	1	181114-01	183314-01
	2	181114-02	183314-02
	3	181114-03	183314-03
	5	181114-05	183314-05
	10	181114-10	183314-10
50/125µm OM4	1	181115-01	183315-01
	2	181115-02	183315-02
	3	181115-03	183315-03
	5	181115-05	183315-05
	10	181115-10	183315-10
9/125µm OS2	1	181113-01	183313-01
	2	181113-02	183313-02
	3	181113-03	183313-03
	5	181113-05	183313-05
	10	181113-10	183313-10



# Cable Stripper and Cutter

## Application

These new fiber optic strippers are made with a number of models available to cover a range of fiber optic stripping applications.








## Description

Ergonomic design made to limit human error and prevents damage on the optical fibers.  
Preset factory settings so no adjustments are required.

## General features

Made of high quality carbon steel and the blades are treated with procedures for guarantee higher durability and longer life.  
Ergonomic handle for greater comfort.  
Ready for strips fiber jacket, various measure buffer coating.

CODE	DESCRIPTION	
160008-00	Miller fiber stripper 250µm and 900µm jacket	
160011-01	IDEAL buffer tube stripper (removes up to 3.5mm)	
160012-00	IDEAL Replacement blades for buffer tube stripper (3 pz.)	
160011-00	IDEAL buffer tube stripper (removes up to 5,5mm)	
160012-00	IDEAL Replacement blades for buffer tube stripper (3 pz.)	
160009-00	Miller Fiber stripper 3mm, 250µm and 900µm jacket	
160022-00	70mm cable cutter	



# Fiber Optic Cleaning



## Application

Eliminate the #1 cause of fiber link failure: contamination

### Description

ORCA® offers a large numbers of cleaning accessories for the fibers optic works. Most tools can also be purchased separately.

### Specification

Specially-designed fiber solvent

### General features

**Use:** for use with wet or dry wipes

**Composition:** isopropyl alcohol or water based

CODE	DESCRIPTION
150010-00	Fiber Optic Cleaning fluid (0,5l)
150010-02	Fiber Optic Cleaning fluid water based (spray bottle 100 ml)
150010-01	Automatic Dispenser for cleaning fluid 100ml

# Fiber Optic Cleaner Pen



## Application

Telecom Central offices; Data centers; Cable television head end; Outside plant and fiber to the home; Fiber optic broadcasting including HDTV; Fiber optic military and civilian aviation; Military and civilian maritime optical networks; Fiber optic satellite communication systems; Fiber to the antenna for WiMax and Cellular Networks.

## Description

ORCA® Fiber Optic Cleaner Pens are designed to specially work well with the female connectors.

This instrument cleans the ferrule end faces removing dust, oil, and other debris without nicking or scratching the end face. Simple pushing motion to engage tool. Audible CLICK to alert the operator when tool is full engaged. Dry cleaning stand eliminates the need for solvents to be effective.

## Specification

Suitable for LC/MU and FC/SC/ST/E2000 Male & Female (UPC/APC)

## General features

**Material:** ABS  
**Size:** 185x25x25mm  
**Weight:** 44g/pc  
**Cleaning Times:** over 800

## Compliance

Compliant with EU/95/2002/EC Directive (RoHS)

CODE	DESCRIPTION
150016-01	One-Click cleaner Pen for connector: LC 1.25mm
150016-00	One-Click cleaner Pen for connector: SC/FC/ST/E2000 da 2.5mm
150016-02	One-Click cleaner Pen for MPO/MTP connector

# VFL - Visual Fault Locator



## Application

Identification of a broken or extreme bended fiber using a simple visible light

## Description

ORCA Fault Locator are designed for either single mode or multimode use. These pocket-sized units allow you to visually locate micro-bends, fiber breaks, and other sources of optical attenuation in fiber patch cords, patch panels, and enclosures. A bright 650nm laser source makes fault detection fast and easy. Available with universal adapters which accept either 2.5mm (default) or 1.25mm ferrules (optional)

## General features -01

**Visible:** red - 650nm  $\pm$  5nm Laser (<5mW)  
**Fiber-coupled output:** 0dBm typical, -3.5dBm minimum (single mode fiber)  
**Approx. Range:** 6-7km (single mode), 4-5km (multimode)  
**Small pocket size design dimensions:** 18 long x 2,5cm diameter  
**Light source:** Continuous or Modulated Light Source  
**Use:** Singlemode or Multimode Use  
**Operating temperature:** -10 degree to 50 degree  
**Battery:** (2)AA - Life: 30hrs continuous, 40hrs modulated

## General features -01R

**Visible:** red - 650nm  $\pm$  5nm Laser (<15mW)  
**Fiber-coupled output:** 0dBm typical, -3.5dBm minimum (single mode fiber)  
**Approx. Range:** 8-10km (single mode), 6-7km (multimode)  
**Pocket size design dimensions:** 148mm x diam. 29mm - 200g  
**Light source:** Continuous or Modulated Light Source  
**Use:** Singlemode or Multimode Use  
**Operating temperature:** -10 degree to 50 degree  
**Battery:** rechargeable 3.7V Li-battery 2200mAh) with level status white light and power bank functions



CODE	DESCRIPTION
160006-01	Laser Fault Locator
160006-01R	Rechargeable Laser Fault Locator

# Kevlar Cutter



## Application




These new Kevlar cutter are made with a number of models available to cover a range applications.

## Description

Appropriately designed to cut Kevlar®, glass fiber, cabling insulation sheath, insulation and shield tape, cable ties and other material.

## General features

Adjustable joint screw. Sharp and durable. A finely serrated blade for a better grip.  
Ergonomic handle for greater comfort in use.

CODE	DESCRIPTION	
160014-00	MILLER Professional Kevlar Cutter	
166615-00	Professional Kevlar Cutter steel carbon	
160016-00	Miller Kevlar Cutter	



# Microscope for Fiber Optic Inspection



## Application

Reveals Scratches, Defects and Contamination

## Description

ORCA® high quality, low cost, Fiber Optic Hand Held Microscopes offer you a choice of 100X, 200X or 400X magnification. These Fiber Optic Microscopes utilize white LED light to provide you with bright, coaxial illumination of your fiber optic connector end-faces. This method of illumination enables you to see, in high-resolution detail, any scratches, defects or contamination you may have on your fiber optic endface surfaces. Three "AAA" batteries provide you with more than 40 hours of use before battery replacement is required. Your Fiber Optic Hand Held Microscope comes with a universal 2.5mm adapter, with other fiber optic connector styles available. The size of these handy, very compact Fiber Optic Microscopes is just 8.76" L x 2.16" H.

## Specification

Universal ST, FC, SC

## General features

100X  
High Quality - Low Cost  
White LED Light Provides Coaxial Illumination  
40 Hours Battery Life  
Size: 210x55mm c.ca  
Soft bag included



CODE	DESCRIPTION
160001-00	100X Microscope - Eco - Universal ST, FC, SC
160002-00	200X Microscope - Professional - Universal ST, FC, SC
160003-00	400X Microscope - Professional - Universal ST, FC, SC
160004-00	LC adapter for professional Microscope
FIP-T	Fiber Inspector Kit, 400X, WiFi-USB interface, Smartphone/PC Compatibility

# OPM - OLS

## Mini OTDR R/P

## Quad OTDR

### Application

Multifunction instrument to test, validate and help customers solve the communication link field test on fiber optic installation, and later maintenance more effectively.



### Description

Optical Power Meter and Optical Laser Source are integrated with high performance optical sensor, High accuracy and stability. Rugged design, Auto wavelength recognition with same series laser source and laser meter. 999 group data storage function with computer software to export data and make reports.

With LCD backlight function and auto power off.

OTDR Mainly used to measure the length, loss and connection quality of optical fiber and cable. It is widely used in engineering construction, line maintenance test, emergency repair, development and production measurement of optical fiber and optical cable. It is mainly used in urban trunk line, backbone network and metropolitan area network. SOR standard file format.



CODE	DESCRIPTION
FHOPM-A	Optical Power Meter multi frequency, range -70 ~ + 10dBm
FHOPS-Q	Optical Laser Source, Quad waveleght, -5dBm
OTDR-P	MINI OTDR color touch screen, 1310/1550 26/24dB 500m-100Km, multifunction with VFL-OLS-OPM, RJ45 Interface
OTDR-R	MINI OTDR handled, 1310/1550 28/26dB 4m-over 80Km, multifunction with VFL-OLS OPM, basic RJ45 Interface, bht
OTDR-Q	QUAD OTDR touch screen, 850/1300/1310/1550nm - 26/28/35/33dB, 100m-400km, multifunction VFL, OPM, OLS.

# Mini 5C+ Premium FiberFox



## Application

The Most Complete Fusion Splicer Kit  
High-end Core Aligment - AOCAT



### Characteristic

<b>Method:</b>	High-end Core Alignment - AOCAT
<b>Splice type:</b>	SM, MM, NZD, G.654
<b>Fiber detecting:</b>	Dual CCD camera w/LED emitting system
<b>Splice time:</b>	Quick: 4 sec / auto 9 sec.
<b>Electrode Lifespan:</b>	5,500 arcs
<b>Sleeve:</b>	Ave. 10 Sec.
<b>Universal Holder:</b>	250, 900µm, 2~3mm
<b>Illumination:</b>	LED
<b>Screen:</b>	4,3 LCD monitor full touch screen, tempered glass
<b>Battery:</b>	5200mAh Li-ion battery 2EA in package
<b>Splice On Connector:</b>	SC, LC, FC, ST
<b>Removable Holder:</b>	250 & 900µm
<b>Boost Heating System:</b>	Fast heating

### Standar package

The standard package includes:

- Mini5C+ Splicer
- Cleaver Softcase
- Mini50GB+ Cleaver
- Power Cord
- USB Cable
- AC Adapter
- Car Cigar Cable
- Cooling Tray
- Spare Electrode
- SOC Heater Block
- SOC Holder
- 2 Battery Packs
- Shoulder Strap
- User Manual CD
- Hand Carrying Case

### Splicing Loss

Stable splicing loss under any environment:

- Elevation 0-5000 meter
- The max wind speed 15m/s
- Temperature -10~50°C
- relative humidity 0~95%

### Technical detail

- Anti-shock
- Waterproof
- Dustproof



## SPECIFICATIONS

Splicing Method	Core Alignment. DCID (Digitalized Core Image Detecting) System
Model	SM(0.02dB) / MM(0.01dB) / DS(0.04dB) / NZDS(0.04dB) / G.657(0.02dB)
Size	>>60dB
Weight	SM Quick mode : 6 sec. / SM Average : 8 sec.
Cleaver	>5,500 arcs
Monitor	SM(ITU-T G.652&G.657) / MM(ITU-T G.651) / DS(ITU-T G.653) / NZDS(ITU-T G.655) / IT-G657A / IT-G657B, 0.25mm, 0.9mm, 2.0mm, 2.4mm, 3.0mm, FLAT(Indoor cable)
Splicing Time	Coating Diameter<0.25mm=5-16mm, Coating Diameter>0.25mm=8-16mm minimum
Splicing Loss	100 ~ 3,000um
Return Loss	80-150um
Heater	Factory installed mode : 4, User installable mode : 32
60mm sleeve	Typical: 10 sec. (60mm sleeve) / 5 sec. (Micro sleeve: 60mm cutting diameter 250um)
Splicing Program	40mm, 60mm, SOC Connector
Heating Program	USB 2.0
Applicable Fibers	Factory installed mode: 17, User installable mode: 128
Electrode life cycle	Up to 10,000 records and 2,000 splice images
Coating diameter	LED emitting white light
Applicable Sleeves	Li-ion, 5200mAh Typical 220 Cycles(Splice & Heat) / single battery (2 Batteries in package)
Tension Test	AC 100-240V input or DC 12.6V 1.8A
Cleaved length	4.3"LED, 720p HD color monitor / Full Touch Screen (Tempered Glass)
Data transmission	2 CCD camera system
Data Storage	XY style : 160 power, X/Y : 320 power
Warranty	1.42kg (without battery)
Power AC	124mm X 123mm X 138mm
Power DC	The max wind speed 15m/s
Battery	Elevation 0-5,000 meter, -10~50°C, 0~95% relative humidity
Battery in package	Temperature -20 to 60°C, 0~95% relative humidity, battery -20~40°C
Splice & Heat cycle	1.96~2.25N (standard)
Charging Method	Range : 0.1dB ~ 20dBd (0.1dB step)
Operating condition	1.96~2.25N (standard)
Storage condition	Range : 0.1dB ~ 20dBd (0.1dB step)





# FUSE6



## Application

The real core alignment splicer.

### Characteristic

Model:	Fuse6
Alignment:	real core
Dimension:	170x170x140mm – 2.6Kg with battery and rubber
protectionKeypad:	13 funcions
Electrode life:	5000
Screen:	5 inc tempered glass – 180° tilt – full touch – 307,000 pixels
Magnification:	500x lens
Battery:	5200mAh

### Standar package

The standard package includes:

- Hand Carrying Case
- Fuse4 Splicer
- Shoulder Strap
- Cooling Tray
- Spare Electrode
- KLIV1 precision cleaver
- Cleaver Softcase
- Power Cord
- AC Adapter
- 2 Battery Packs
- USB Cable

### Details

Boot & warmup:	2 sec.
Splicing:	6 sec.
Boost heating:	13 sec.
Cicle work:	about 30sec.
Magnet heating block compatible with all connectors and cable	
Wide heating plate, ready for Splice On Connectors	

## SPECIFICATIONS

Splicing Method	Core Alignment. DCID (Digitalized Core Image Detecting) System
Model	Fuse 6
Size:	140Wx170Dx170H
Weight :	2.6kg
Cleaver	KLIV1+ (Auto push-back with auto chip collector)
Monitor	5' TFT color LCD 500x Magnification , Tilting angle : 180°
Splicing Time	SM AUTO mode : 6 Sec.
Splicing Loss:	SM - 0.02dB; MM - 0.01dB; DS - 0.04dB; NZDS : 0.04dB;
Return Loss	>60dB
Heater	Boost heater with built-in SOC heating block
60mm sleeve	13Sec.
Splicing Program	141 Splice modes
Heating Program	105 Splice modes
Applicable Fibers	G.651,652,653,655,other single mode fibers including ITU-T G.657A, G.657B
Electrode life cycle	5.000 – 5.500
Coating diameter	100~3200 urn
Applicable Sleeves	20, 25, 30, 35, 40, 50, 60mm, Micro
Tension Test	1.96~2.25N
Cleaved length	250Um Fiber :8~15mm, 900Um Fiber : 10~16mm, 900Um Fiber : 10~16mm
Data transmission	Mini USB
Data Storage	20,000 splice record memory / 500 Splice Image Memory
Warranty	3years
Power AC	100—240v 5D/60Hz
Power DC	12 ~15V (Quick rechaging)
Battery	Li-ion 12v (5200mA ) Portable type (Detachable)
Battery in package	2pc potable (Basic set)
Splice & Heat cycle	500 cycles
Charging Method	AC Adapter - Charging Available during operation
Operating condition	0 to 5,000m above sea level, 0 to 95%RH and -10 to 53°C and up to 15m/s wind velocity, respectively.
Storage condition	0~95% relative humidity, -40 ~ 80°C , battery: -20 ~ 30°C for long term

# FUSE4



## Application

Modular 3 axis active clad splicer.

### Characteristic

Model:	Fuse4
Alignment:	clad
Dimension:	120x160x140mm – 2.2Kg with battery and rubber protection
Keypad:	13 functions
Electrode life:	5000
Screen:	4,3 inc tempered glass – 180° tilt – full touch
Magnification:	380x lens
Battery:	5200mAh

### Standar package

The standard package includes:

- Hand Carrying Case
- Fuse4 Splicer
- Shoulder Strap
- Cooling Tray
- Spare Electrode
- KLIV1 precision cleaver
- Cleaver Softcase
- Power Cord
- AC Adapter
- 1 Battery Packs
- USB Cable

### Details

Boot & warmup:	2 sec.
Splicing:	6 sec.
Boost heating:	12 sec.
Cicle work:	about 30sec.
Magnet heating block compatible with all connectors and cable	
Wide heating plate, ready for Splice On Connectors	

## SPECIFICATIONS

Splicing Method	Core Alignment. DCID (Digitalized Core Image Detecting) System
Model	Fuse 4
Size	120Wx163Dx140H
Weight	2.2kg
Cleaver	KLIV1 (Auto push-back with manual trash bin)
Monitor	4.3' TFT color LCD 380x Magnification , Tilting angle : 180°
Splicing Time	SM AUTO mode : 6 Sec.
Splicing Loss	SM - 0.03dB; MM - 0.01dB; DS - 0.04dB; NZDS : 0.04dB;
Return Loss	>60dB
Heater	Boost heater with built-in SOC heating block
60mm sleeve	13Sec.
Splicing Program	141 Splice modes
Heating Program	105 Splice modes
Applicable Fibers	G.651,652,653,655,other single mode fibers including ITU-T G.657A, G.657B
Electrode life cycle	5.000 – 5.500
Coating diameter	100~3200 urn
Applicable Sleeves	20, 25, 30, 35, 40, 50, 60mm, Micro
Tension Test	1.96~2.25N
Cleaved length	250Um Fiber :8~15mm 900Um Fiber : 10~16mm
Data transmission	Mini USB
Data Storage	20,000 splice record memory / 500 Splice Image Memory
Warranty	3 years
Power AC	100—240v 5D/60Hz
Power DC	12 ~15V (Quick rechaging)
Battery	Li-ion 12v (5200mA ) Portable type (Detachable)
Battery in package	1pc potable (Basic set)
Splice & Heat cycle	250 cycles
Charging Method	AC Adapter - Charging Available during operation
Operating condition	0 to 5,000m above sea level, 0 to 95%RH and -10 to 53°C and up to 15m/s wind velocity, respectively.
Storage condition	0~95% relative humidity, -40 ~ 80°C , battery: -20 ~ 30°C for long term



# Mini 50GB+

## FiberFox



### Application

FiberFox Innovative Fiber Cable Cleaver delivers portability and great performance



### Characteristic

Performance:	90°
Universal Holder:	250μ / 900μ / 2-3 Ø / Indoor
Blade Life-Span:	≤ 0.5° : 48,000
Other features:	Robust & shock resistant Chip collector (50GB+)



### SPECIFICATIONS

Type	Single Fiber
Applicable Fiber	250um, 900um, Φ2mm, Φ3mm, Drop Cable
Clad Diameter	80~125um
Length	8~20mm / 0.31in~0.78in (single fiber)
Cleaving Angle	≤ 0.5°
Lifespan of Blade	50,000 times
Operation Step	2 steps / Auto Pushback Slider Block
Holder	Universal Holder
Collector	Auto Collector (50GB)
Weight	0.52lbs.

# KLIVE1



## Application

High precision portable fiber cleaver.

## Characteristic

Model:	Fuse6
Alignement:	real core
Dimension:	170x170x140mm – 2.6Kg with battery and rubber
protectionKeypad:	13 fonctions
Electrode life:	5000
Screen:	5 inc tempered glass – 180° tilt – full touch – 307,000 pixels
Magnification:	500x lens
Battery:	5200mAh

## Feature

Chip bin collector with magnetic fixing for quick remove  
Automatic chip collector (on KLIVE1+)  
Soft case Tray







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**158** SERVER RACKS

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**168** FLOOR RACKS

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**170** WALL RACKS

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**172** ACCESSORIES

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# Rack Cabinets



# Rack cabinet solutions

The right choice for a wide range of applications

The ORCA range consists of different types of rack, wall, floor, server and video surveillance cabinets.

The construction of the ORCA solution guarantees correct management of the wiring inside the cabinet, being equipped with a series of accessories that facilitate the organization of the components in the cabinet.

Industrial Switch Solution, Media Converters and PDUs (Power Distribution Units).

Supporting the infrastructural solutions, ORCA provides its partners with a series of solutions and components that allow the completion of the installation in the cabinet. Industrial switches, media converters and PDUs are provided in different types and performances to facilitate and ensure the correct transmission of data and the functioning of the infrastructure.



# Floor standing server rack

## MARLIN Line

### Application

The ORCA Networking SERVER cabinets are designed and manufactured in compliance with quality and safety standards, optimal solutions for the management and organization of structure cabling. Orca system offers a range of wall racks with relative accessories. Rack cabinets are distinguished by their exceptional robustness, which, combined with affordability and simplicity of assembly/disassembly, place them at the top of their category.

### General features

<b>Material:</b>	12/10 Steel
<b>Colour:</b>	Finish Surface Powder Coating, Color RAL9005 (Black)
<b>Load:</b>	Static load capacity 2000Kg.
<b>IP Grade:</b>	IP20 protection in according to EN 60529.
<b>Doors front:</b>	Front single door perforated 80% - Reversible, with quick release hinges system. Foldaway handle, 2 key supplied.
<b>Doors rear:</b>	Rear, vertical double door, perforated 80%
<b>Doors open:</b>	Opening 110°
<b>Side:</b>	Blind side panels removable, two sections, with quick release system and door lock 1/4 turn lock
<b>Roof and floor:</b>	Passive ventilation slots and perforated panels for the recirculation of hot air Predisposition for mounting 2-4 fans ventilation unit. Pre-punched and brushes space for cable inlet.
<b>Other:</b>	Levelling feet and wheels; Standard ground kit; Front and rear 19 " in 20/10 galvanized steel side uprights adjustable in depth; 2 front vertical cable management (on L.800mm series only)

### Optional

<b>Finishing:</b>	Finishing plinth H100mm with fixed corner and removable panels
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### Certification

EN 61000-6-1:2011 + EN 61000-6-1:2007 + EN 61000-6-3:2007 + EN 61000-6-3:2007+A1:2011 + EN 55011:2010+A1:2010/2011 + EN 55011:2009+A1:2010 Electromagnetic Compatibility Directive;

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU





CODE	UNIT S	WIDTH OVERALL	WIDTH USEFUL	DEPTH OVERALL	DEPTH USEFUL	HEIGHT OVERALL	HEIGHT USEFUL
614200-00M	42	600	560	1000	915	2017	1890
814200-00M	42	800	760	1000	915	2017	1890





# Floor standing small server rack

## MARLIN Line

### Application

The ORCA Networking SERVER cabinets are designed and manufactured in compliance with quality and safety standards, optimal solutions for the management and organization of structure cabling. Orca system offers a range of wall racks with relative accessories. Rack cabinets are distinguished by their exceptional robustness, which, combined with affordability and simplicity of assembly/disassembly, place them at the top of their category.

### General features

<b>Material:</b>	12/10 DKP Steel
<b>Colour:</b>	Finish Surface Powder Coating, Color RAL9005 (Black)
<b>Load:</b>	Static load capacity 800Kg. – 1000Kg with plinth
<b>IP Grade:</b>	IP20 protection in according to EN 60529
<b>Doors front:</b>	Front single door perforated 80% - Reversible, with quick release hinges system. Foldaway handle, 2 key supplied
<b>Doors rear:</b>	Rear, vertical double door, perforated 80%
<b>Doors open:</b>	Opening 110°
<b>Side:</b>	Blind side panels removable, two sections from 36U, with quick release system and door lock 1/4 turn lock
<b>Roof and floor:</b>	Passive ventilation slots and perforated panels for the recirculation of hot air Predisposition for mounting 2-4 fans ventilation unit. Pre-punched and brushes space for cable inlet.
<b>Other:</b>	Levelling feet and wheels; Standard ground kit; Front and rear 19 " in 20/10 galvanized steel side uprights adjustable in depth; 2 front vertical cable management (on L.800mm series only)

### Optional

<b>Finishing:</b>	Finishing plinth H100mm with fixed corner and removable panels
<b>Wheels:</b>	Wheels and wheels with brake

### Certification

EN 61000-6-1:2011 + EN 61000-6-1:2007 + EN 61000-6-3:2007 + EN 61000-6-3:2007+A1:2011 + EN 55011:2010+A1:2010/2011 + EN 55011:2009+A1:2010 Electromagnetic Compatibility Directive;

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU





CODE	UNIT S	WIDTH OVERALL	WIDTH USEFUL	DEPTH OVERALL	DEPTH USEFUL	HEIGHT OVERALL	HEIGHT USEFUL
600x1000							
612600-00M	26	600	508	1000	908	1306	1216
613200-00M	32	600	508	1000	908	1573	1483
613600-00M	36	600	508	1000	908	1751	1661
800x1000							
812600-00M	26	800	708	1000	908	1306	1216
813200-00M	32	800	708	1000	908	1573	1483
813600-00M	36	800	708	1000	908	1751	1661

# Floor standing rack

## MARLIN Line

### Application

The ORCA Networking SERVER cabinets are designed and manufactured in compliance with quality and safety standards, optimal solutions for the management and organization of structure cabling. Orca system offers a range of wall racks with relative accessories. Rack cabinets are distinguished by their exceptional robustness, which, combined with affordability and simplicity of assembly/disassembly, place them at the top of their category.



### General features

<b>Material:</b>	12/10 DKP Steel
<b>Colour:</b>	Finish Surface Powder Coating, Color RAL9005 (Black)
<b>Load:</b>	Static load capacity 800Kg
<b>IP Grade:</b>	IP20 protection in according to EN 60529
<b>Doors front:</b>	Front glass single door - Reversible, with quick release hinges system. With foldaway handle, 3 points locking system, 2 keys supplied
<b>Doors open:</b>	Opening 110°
<b>Side:</b>	Blind side and rear panels removable, two sections from 33U, with quick release system and door lock 1/4 turn lock
<b>Roof and floor:</b>	Passive ventilation slots and perforated panels for the recirculation of hot air Predisposition for mounting 2-4-6 fans ventilation unit Pre-punched and brushes space for cable inlet
<b>Other:</b>	Levelling feet and wheels Standard ground kit Front and rear 19 " in 20/10 galvanized steel side uprights adjustable in depth 2 front vertical cable management (on L.800mm series only).

### Optional

<b>Finishing:</b>	Finishing plinth H100mm with fixed corner and removable panels
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### Certification

EN 61000-6-1:2011 + EN 61000-6-1:2007 + EN 61000-6-3:2007 + EN 61000-6-3:2007+A1:2011 + EN 55011:2010+A1:2010/2011 + EN 55011:2009+A1:2010 Electromagnetic Compatibility Directive;

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU



CODE	UNIT S	WIDTH OVERALL	WIDTH USEFUL	DEPTH OVERALL	DEPTH USEFUL	HEIGHT OVERALL	HEIGHT USEFUL
600x600							
662200-00M	20	600	508	600	508	1039	950
662400-00M	24	600	508	600	508	1217	1127
662700-00M	27	600	508	600	508	1350	1260
663300-00M	33	600	508	600	508	1617	1527
663600-00M	36	600	508	600	508	1750	1660
664200-00M	42	600	508	600	508	1917	1867
600x800							
682700-00M	27	600	508	800	708	1350	1260
683300-00M	33	600	508	800	708	1617	1527
683600-00M	36	600	508	800	708	1750	1660
684200-00M	42	600	508	800	708	1917	1867
684700-00M	47	600	508	800	708	2240	2150
800x800							
883300-00M	33	800	708	800	708	1617	1527
883600-00M	36	800	708	800	708	1750	1660
884200-00M	42	800	708	800	708	1917	1867
884700-00M	47	800	708	800	708	2240	2150



# Wall rack

## MARLIN Line

### Application

The ORCA Networking wall cabinets are designed and manufactured in compliance with quality and safety standards, optimal solutions for the management and organization of structure cabling.

Orca system offers a range of wall racks with relative accessories. Rack cabinets are distinguished by their exceptional robustness, which, combined with affordability and simplicity of assembly/disassembly, place them at the top of their category.

### General features

<b>Material:</b>	10/10 DKP Steel
<b>Colour:</b>	Finish Surface Powder Coating, Color RAL9005 (Black)
<b>Load:</b>	Static load capacity 60Kg
<b>IP Grade:</b>	IP20 protection in according to EN 60529
<b>Doors front:</b>	Tempered glass front door, reversible with quick release system, with lock, 2 key supplied
<b>Doors rear:</b>	Rear, vertical double door, perforated 75%
<b>Doors open:</b>	Opening 180°
<b>Side:</b>	Blind side panels removable with quick release system
<b>Roof and floor:</b>	Passive ventilation slots and perforated panels for the recirculation of hot air Predisposition for mounting 2 fans ventilation unit. Pre-punched and brushes space for cable inlet.
<b>Other:</b>	2 rear steel 19" side fix uprights and 2 front adjustable in depth Fixed back, with cable entry hole covered by plastic cap Standard ground kit Wall pre-mounting Kit.

### Certification

EN 61000-6-1:2011 + EN 61000-6-1:2007 + EN 61000-6-3:2007 + EN 61000-6-3:2007+A1:2011 + EN 55011:2010+A1:2010/2011 + EN 55011:2009+A1:2010 Electromagnetic Compatibility Directive;

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU





CODE	UNIT S	WIDTH OVERALL	WIDTH USEFUL	DEPTH OVERALL	DEPTH USEFUL	HEIGHT OVERALL	HEIGHT USEFUL
<b>540x450</b>							
564500-6UM	6	540	519	450	354	337	330
564500-09UM	9	540	519	450	354	472	465
564500-12UM	12	540	519	450	354	607	600
564500-15UM	15	540	519	450	354	740	733
<b>540x600</b>							
566000-12UM	12	540	519	600	504	607	600
566000-15UM	15	540	519	600	504	740	733
566000-20UM	20	540	519	600	504	961	754

(\*) Possibility of supplying in Flat Pack (UM) or Assembled version (M), on all measures.

# Floor standing server rack

## N Line

### Application

The ORCA Networking SERVER cabinets are designed and manufactured in compliance with quality and safety standards, optimal solutions for the management and organization of structure cabling. Orca system offers a range of wall racks with relative accessories. Rack cabinets are distinguished by their exceptional robustness, which, combined with affordability and simplicity of assembly/disassembly, place them at the top of their category.

### General features

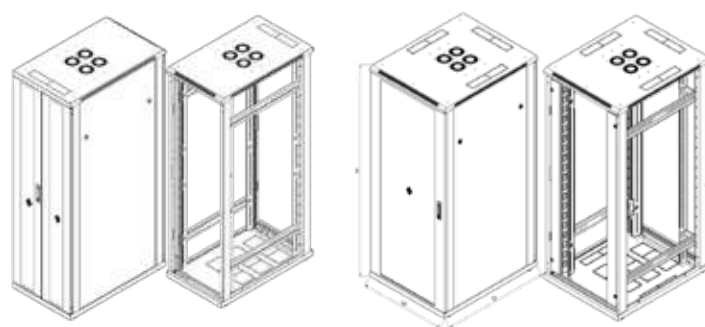
<b>Material:</b>	15/10 Steel - Load-bearing frame
<b>Colour:</b>	Finish Surface Powder Coating, Color RAL9011 (Black)
<b>Load:</b>	Static load capacity 800Kg.
<b>IP Grade:</b>	IP20 protection in according to EN 60529
<b>Doors front:</b>	Front, single door, perforated 75%
<b>Doors rear:</b>	Rear, vertical double door, perforated 75%
<b>Doors open:</b>	Opening 180° - Reversible, with quick release hinges system. Foldaway handle, 2 key supplied
<b>Side:</b>	Blind side panels removable, with quick release system and door lock 1/4 turn lock
<b>Roof and floor:</b>	Passive ventilation slots and perforated panels for the recirculation of hot air Predisposition for mounting 2-4 fans ventilation unit. Multi pre-punched space for cable inlet.
<b>Other:</b>	Levelling feet; Standard ground kit; Front and rear 19" in 20/10 galvanized steel side uprights adjustable in depth;

### Optional

<b>Finishing:</b>	Finishing plinth H100mm or wheels 2 front vertical cable management (on W.800mm series only)
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### Certification

IEC 297; IEC 271; EN 61439-1; EN 60529; EN50102 – IK 10; EN 62208;





CODE	UNIT	WIDTH OVERALL	WIDTH USEFUL	DEPTH OVERALL	DEPTH USEFUL	HEIGHT OVERALL	HEIGHT USEFUL
572600-42N	42	600	529	1000	748	1957	1870
573600-42N	42	600	529	1200	1196	1957	1853
572800-42XN	42	800	729	1000	748	1957	1870
573800-42XN	42	800	796	1200	1196	1957	1853





# Floor standing rack

## N Line

### Application

The ORCA Networking SERVER cabinets are designed and manufactured in compliance with quality and safety standards, optimal solutions for the management and organization of structure cabling. Orca system offers a range of wall racks with relative accessories. Rack cabinets are distinguished by their exceptional robustness, which, combined with affordability and simplicity of assembly/disassembly, place them at the top of their category.



### General features

<b>Material:</b>	15/10 Steel - Load-bearing frame
<b>Colour:</b>	Finish Surface Powder Coating, Color RAL9011 (Black)
<b>Load:</b>	Static load capacity 500Kg
<b>IP Grade:</b>	IP20 protection in according to EN 60529
<b>Doors open:</b>	Opening 180° - Reversible, with quick release hinges system. Foldaway handle, 2 key supplied
<b>Side:</b>	Blind and rear side panels removable, with quick release system and door lock 1/4 turn lock
<b>Roof and floor:</b>	Passive ventilation slots and perforated panels for the recirculation of hot air Predisposition for mounting 2-4 fans ventilation unit. Multi pre-punched space for cable inlet
<b>Other:</b>	Levelling feet; Standard ground kit; Front 19" in 20/10 galvanized steel side uprights adjustable in depth 600mm Front and rear in depth 800mm



### Certification

IEC 297; IEC 271; EN 61439-1; EN 60529; EN50102 – IK 10; EN 62208;

### Optional

Finishing plinth H100mm or wheels  
2 front vertical cable management (on L.800mm series only)  
Rear 19" in 20/10 galvanized steel side uprights adjustable in depth;





CODE	UNIT	WIDTH OVERALL (mm)	WIDTH USEFUL (mm)	DEPTH OVERALL (mm)	DEPTH USEFUL (mm)	HEIGHT OVERALL (mm)
<b>600 X 600</b>						
572201-20N	20	600	529	600	348	891
572200-24N	24	600	529	600	348	1069
572200-27N	27	600	529	600	348	1203
572200-33N	33	600	529	600	348	1470
572200-42N	42	600	529	600	348	1870
<b>600 X 800</b>						
576801-27N	27	600	529	800	548	1203
576801-33N	33	600	529	800	548	1470
576801-42N	42	600	529	800	548	1870
576801-47N	47	600	529	800	548	2092
<b>800 X 800</b>						
572700-33XN	33	800	729	800	548	1470
572700-42XN	42	800	729	800	548	1870
572700-47XN	47	800	729	800	548	2092

# Wall mount rack 570mm wide

## Application

The Orca floor and wall cabinets are designed and manufactured in compliance with quality and safety standards, optimal solutions for the management and organization of structured cabling. Orca offers a range of wall racks with relative accessories. Rack cabinets are distinguished by their exceptional robustness, which, combined with affordability and simplicity of assembly / disassembly, place them at the top of their category.



## General features

**Physical material:** Profile 12/10, other 10/10 Cold Rolled Steel.  
**Colour:** Surface finish Black RAL 9004 polyester powder paint  
**Load:** 60Kg

**IP Grade:** IP20 protection degree in according to EN 60529

**Doors front:** Tempered safety glass, reversible, with quick release system and lock, 2 key supplied. Opening 180°

**Roof and floor:** Opening 180°, reversible; passive ventilation slots for the recirculation of hot air; pre-punched space for cable inlet

**Other:** Back panel with wall mount bracket and fixing hole; blind side panels removable with quick release system, locked from inside with screw, avoiding to be stolen or accidentally dropped; 2 front 19 " steel side uprights adjustable in depth; supplying in Flat Pack; finishing plint, wheels, feet not available

## Certification

ANSI/EIA RS-310-D IEC60297-2, DIN41494; PART 1, DIN41494; PART 7





CODE	UNIT	WIDTH OVERALL (mm)	DEPTH OVERALL (mm)	HEIGHT OVERALL (mm)
571090-06U	6	570	450	370
571090-09U	9	570	450	500
571090-12U	12	570	450	635
571090-15U	15	570	450	770
571100-12U	12	570	450	635
571100-15U	15	570	450	770





# PDU 19" - Slot Multistandard

## Protected Light Switch



### Application

Power Distribution Unit for 19" installation

### Construction and features

- Material:** Structure in Plastic or Aluminium profile
- Colour:** Black
- Bracket:** Fixing bracket for 19" standard
- Cable:** 3 mt power cord, F3Gx1,5mmq with interior standard connection (screw)
- Plug:** Shuko plug 90° DIN49441 – left and single input
- Power:** 230Vac – 16A – 4000W
- Fixing:** Prepared for front horizontal assembly
- Dotation:** 6 or 8 multi standard socket (shuko + IT 10/16A) – 45/90° angled
- Switch:** Lighted master switch protected from accidental operation

### Standard Compliance and Approvals

CE and RoHS Compliance



CODE	UNIT	DESCRIPTION
482000-06	1U rack	PDU 19" 16A - 6 SLOT multistandard, light switch
482000-08	1U rack	PDU 19" 16A - 8 SLOT multistandard, light switch
485000-06	1U rack	PDU 19" 16A - 6 SLOT multistandard, protected light switch
495000-08	1U rack	PDU 19" 16A - 8 SLOT multistandard, protected light switch
495000-09	1U rack	PDU 19" 16A - 9 SLOT multistandard
495000-13	1U rack	PDU 16A - 13 SLOT multistandard, protected light switch

# PDU 19" - 6 Slot Multistandard MGT



## Application

Power Distribution Unit for 19" installation

### Construction and features

- Material:** Structure in Aluminium profile
- Colour:** Black
- Bracket:** Fixing bracket for 19" standard
- Cable:** 3 mt power cord, F3Gx1,5mmq
- Plug:** Shuko plug
- Power:** 230Vac – 16A – 4000W
- Fixing:** Prepared for front horizontal assembly
- Dotation:** Multi standard socket (shuko + IT 10/16A)
- Switch:** Master air circuit braker, protected from accidental operation

### Standard Compliance and Approvals

CE and RoHS Compliance



CODE	UNIT	DESCRIPTION
482000-16	1U rack	PDU 19" 16A - 6 SLOT multistandard, bipolar magnetothermic
495000-06	1U rack	PDU 19" 16A - 6 SLOT multistandard, bipolar magnetothermic

# Vertical PDU Rack Slot multistandard



## Application

Power Distribution Unit for 19" installation

### Construction and features

- Material:** Solid structure in Aluminium profile
- Colour:** Epoxy powder coating – Black RAL 9004
- Bracket:** Deep adjustable fixing bracket for upright standard
- Cable:** 3 mt power cord, H05VV-F3Gx1,5mmq
- Plug:** Shuko plug 90° DIN49441
- Operating temperature:**Max. 60°
- Power:** 230Vac – 16A – 3500W
- Fixing:** Vertical assembly
- Dotation:** Multi standard socket (shuko + IT 10/16A) – 45° angled

### Standard Compliance and Approvals

CE and RoHS Compliance

CODE	UNIT	DESCRIPTION
495000-12	1U rack	PDU 16A - 12 SLOT multistandard, bipolar magnetothermic



# Security wall cabinet for NVD/DVR



## Application

Protects DVR equipment and video surveillance from unwanted access, in only 15 cm.

### Construction and features

- Material:** Realized steel painted
- Unit:** 1 or 2 unit
- Colour:** Gray
- Dimension:** 58 x 54.6 x 15 cm
- Fixing:** Back equipped with 11 mm spacers for wall mounting
- Dotation:** Tray for housing the equipment equipped with 19" bracket 1U with 36.5cm length, adjustable in width (minimum 24 cm, maximum 48 cm)  
L-shaped bracket for fixing equipment not equipped with 19" connection (with a minimum height of 1 cm and a maximum 5 cm)
- Security:** Door can be opened at 90 ° and equipped with double key lock (different keys)

### Other:

Sides provided with slits for dissipation passive; On the top predisposition for fixing one fan to increase the air flow; pre-cut profiles for the passage of the cables in the lower part of the side (dimensions 13 x 4 cm); Roof equipped with slits for the heat exchange and two pre-cut profiles for cable routing (dimensions 6.5 x 4 cm); Base equipped with slots for exchange thermal and a pre-cut profile for the passage of cables (dimensions 6.5 x 4 cm); Bottom equipped with VESA 50x50 connection, 75x75, 100x100 for the installation of a monitor

### Standard Compliance and Approvals

CE and RoHS Compliance, UNI EN ISO 9001

CODE	DESCRIPTION
585515-01	Security Rack dim. 580Lx546Hx150P DVR/NVR storage and protection - VESA - double key
585515-02	2U bracket for Security cabinet (optional)
475000-04	PDU 4 multistandard sockets, for safety cabinet or 10"

### RELATED PRODUCTS

#### Bracket

- 585515-02

#### Sockets

- 475000-04



# Rack accessories
















## Application

The ORCA rack accessories are made to help with the organization of any copper or fiber system. Easy to install in any rack, 19" standard, they maintain the system organized and of easy access for the technicians. Realized in 10/10-20 steel painted, surface finish Black RAL 9005.

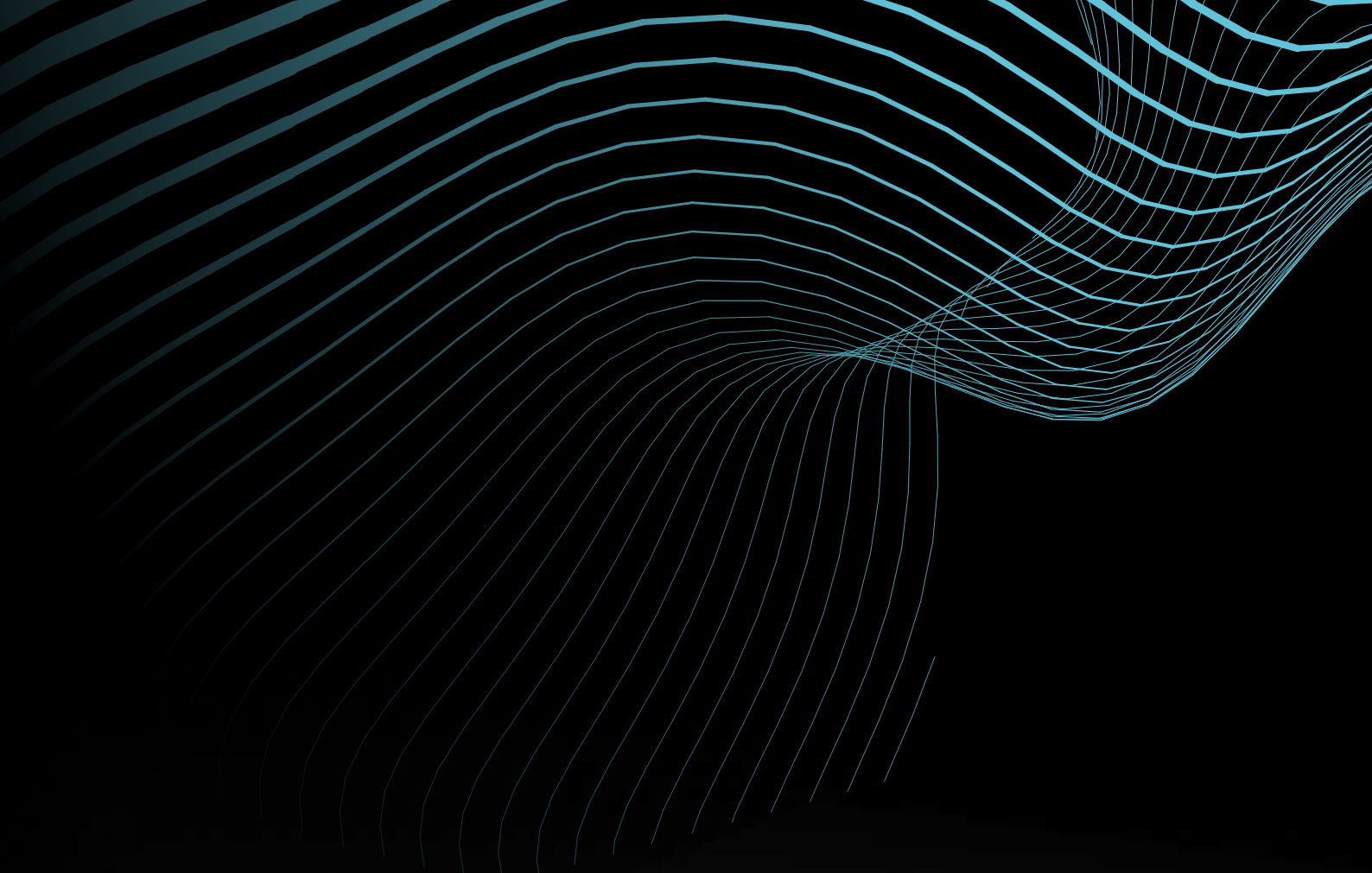
## Certification

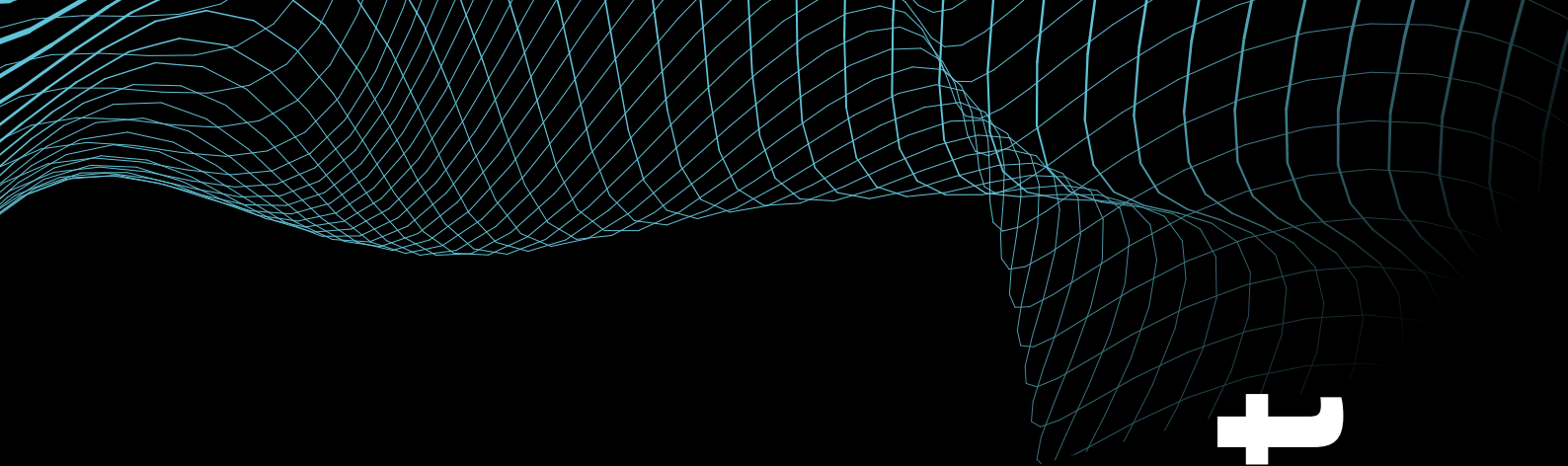
CE and RoHS Compliance, UNI EN ISO 9001

### CODE

550100-00N	Single Axial fan cooler for rack, roof mount, with protection grid	   
550100-00NT	Single Axial fan cooler for rack, roof mount, with protection grid and thermostat	
550100-02N	Group of 2 Axial fan cooler for rack, roof mount, with protection grid	
550100-02NT	Group of 2 Axial fan cooler for rack, roof mount, with protection grid and thermostat	
550100-04N	Group of 4 Axial fan cooler for rack, roof mount, with protection grid	
550100-04NT	Group of 4 Axial fan cooler for rack, roof mount, with protection grid and thermostat	  
550120-01N	Blind panel 1U, Black RAL 9005	
550120-02N	Blind panel 2U, Black RAL 9005	
550120-03N	Blind panel 3U, Black RAL 9005	  
571055-02N	Horizontal cable management – 5 metal rings - Black	
571055-02	Horizontal cable management – 5 metal rings removable with screw - Black	
570025-05	Horizontal cable management – 5 removable plastic rings - Black	  
550270-01N	Kit 2 side rings gest. vertical cables, fixing on mounts, also for 600mm rack	
550240-00	Black Tie wraps useful for cable management (12x20x200mm)	
550240-05	Black Tie wraps roll 5mt useful for cable management (20x200mm)	

550080-02N	Cantilever fix shelf , 2U, depth 250mm, 25Kg - Black	
550090-02N	Cantilever fix shelf , 2U, depth 400mm, 25Kg - Black	
550070-01N	Fixed shelf, 4 uprights fixing for floor cabinets, adaptable depth. 800/1000	
550060-01N	Fixed shelf, 4 uprights fixing for floor cabinets depth. 600	
550071-01N	Sliding shelf prof. 600 for rack 800, 2U, fixing 4 uprights, port. 100 KG	
550072-01N	Sliding shelf prof. 750 for 1000 rack, 2U, 4-post fixing, port. 110 KG	
550091-02N	Sliding keyboard drawer, 2U	
556642-01N	Finishing plinth for floor rack 600x600 - Black	
558642-01N	Finishing plinth for floor rack 600x800 / 800x600 - Black	
558842-01N	Finishing plinth for floor rack 800x800 - Black	
558142-01N	Finishing plinth for floor rack 800x1000 - Black	
550100-01N	Kit 4 wheels diam. 80mm. M10 2 pivoting wheels and 2 with brake	
550230-01S	Kit 50 screws and cage nuts M6 - Silver	
550230-01N	Kit 50 screws and cage nuts M6 - Black	
550230-00S	Kit 50 screws, washer and cage nuts M6 - Silver	
550230-00N	Kit 50 screws, washer and cage nuts M6 - Black	
550505-01N	Rack handle, mechanical numerical combination opening	
550270-08N	Joint fixing KIT for floor stand rack 600 - Black	
550270-09N	Joint fixing KIT for floor stand rack 800 - Black	
550101-00N	Brush cable entry - Black	
550290-00	Set Back Brackets - Black	
550620-00N	2 rear uprights KIT for 600/800mm depth rack - H.20U	
550624-00N	2 rear uprights KIT for 600/800mm depth rack - H.24U	
550627-00N	2 rear uprights KIT for 600/800mm depth rack - H.27U	
550633-00N	2 rear uprights KIT for 600/800mm depth rack - H.33U	
550642-00N	2 rear uprights KIT for 600/800mm depth rack - H.42U	
558842-00N	Grid door for rack 800x42U - Black	





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**180** MEDIA CONVERTER

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**182** INDUSTRIAL SWITCH

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**183** SPF MODULE

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# LAN Equipment



# Media Converter 100 Base-T FX SM and MM



## Application

Copper to fiber and fiber to copper conversion - stand alone

## Description

All ORCA® Fast Ethernet Converters are compact size units with metal cases, to fulfill the FCC emission standards. The 100Base-TX and the 100Base-FX converter feature LED diagnostics for Power, Activity, Link and Full Duplex / Half Duplex operation. All converters are fully compliant with the IEEE 802.3 & 802.3u Fast Ethernet standards and feature one STP-RJ45 10/100Base-TX port as well as one Fiber Optic 100Base-FX (SC/ST/MTRJ) port. In multi mode applications distances up to 100m/300m can be achieved. Each unit is powered by an external power supply. Installation of the Fast Ethernet converter is simple and straightforward. The powerful features are as 10/100 Auto Negotiation, Auto cross over for TP port, Fiber Link Alarm, Voltage supervisor, and support switch mode & pure converter mode.

## Features

**Indicator:** LED Indication: Power, FDX, TP 100, TP Link/Act, Fiber 100, Fiber Link/ACT

**Copper Speed:** 10/100Mbps Auto Negotiation and Auto cross over for TP port on Dual Port 10/100Mbps Switch inside

## Standard Compliance and Approvals

Comply with IEEE 802.3 & 802.3u Fast Ethernet standards; ETH: 14.880 pps F/ETH: 148.000 pps; EMI FCC Part 15 Class A, CE

CODE	DESCRIPTION
481210-01	Media Converter Fast Ethernet MM 100BaseT-FX, SC
482210-01	Media Converter Fast Ethernet MM 100BaseT-FX, ST
481210-02	Media Converter Fast Ethernet SM 100BaseT-FX, SC (30km)

# Media Converter 1000 Base-T SM and MM



## Application

Copper to fiber and fiber to copper conversion - stand alone

## Description

All ORCA® Gigabit Fiber Media Converters are compact size units with metal cases. The traditional 10/100/1000 gigabit Ethernet can be extended to distance of 100Km (depending by models) through optical fiber link. Performance and quality of product are guarantee to adopting latest Gigabit IC from USA and Taiwan. 6 group LED indicated lights could fully monitor the working condition of converter and link. It is easy for users to observe and diagnose the failure of the connection. Gigabit Converters can be use standalone or inserted to 16 slots RACK (optional)

## Features

**Copper Speed:** Auto negotiation function allows UTP ports to auto select 10/100/1000M Full and Half duplex - The UTP ports supports the connection of MDI/MDI-X auto crossover

## Standard Compliance and Approvals

ETH: 14.880 pps F/ETH: 148.000 pps; EMI FCC Part 15 Class A, CE

CODE	DESCRIPTION
481220-01	Media Converter Gigabit Ethernet MM 1000BaseT-SX, SC
481220-02	Media Converter Gigabit Ethernet SM 1000BaseT-LX, SC

# Standard and Industrial Switch

with SFP interface or  
combo uplink



## Application

Switch which aims at Ethernet high definition surveillance and security system application, PoE+, Auto MDI/MDIX function

## Description

Switch with 2x100 or 2x1000Mb uplink SFP/Ethernet port, 4/8/24 10/100 or 10/100/1000Mbps Ethernet ports.  
(\*) DIN, desktop or rack version; (\*) support PoE IEEE802.3af/at power supply standard;  
(\*) from unmanaged to L2.  
(\*) depending on the model

## Features

Status Indicator: Main Power; 2 pcs on RJ45 Yellow for PoE and Green Link/Act; 2 pcs on SFP for Uplink Link/Act; 1 pcs Green for CCTV

## Standard Compliance and Approvals

Meet IEEE802.3, IEEE802.3u, IEEE802.3 af/at standards, PoE use End-Span, the spare cable can be of other use; Excellent antithunder, anti-static and anti-interference ability

CODE	DESCRIPTION
481214-04	Industrial Switch (DIN) unmanaged 4 Ports HPOE 10/100/1000 + 2 Uplink combo Gigabit
481214-08	Industrial Switch (DIN) unmanaged 8 Ports POE 10/100 + 2 Uplink combo Gigabit
481212-04	Switch 4 Ports 10/100 Mbps POE + 2 10/100 Ethernet Uplink
481212-08	Switch 8 Ports 100Mbps POE + 1 x 100 Ethernet Uplink
481212-24	POE Switch Managed 24 ports 100Mb + 2 combo Gigabit Uplink



# SFP module



## Application

Copper to fiber and fiber to copper conversion - Small form factor

### Description

This is a standard SFP optical module. It uses a single mode optical fiber and the speed rate can up to 1.2Gbps, transmission distance up to 20 km.  
This product need to use in pair and match up with video to fiber converter and optical Ethernet switch with SFP port, it can be used in Ethernet, telecom and optical fiber communication and other industries.

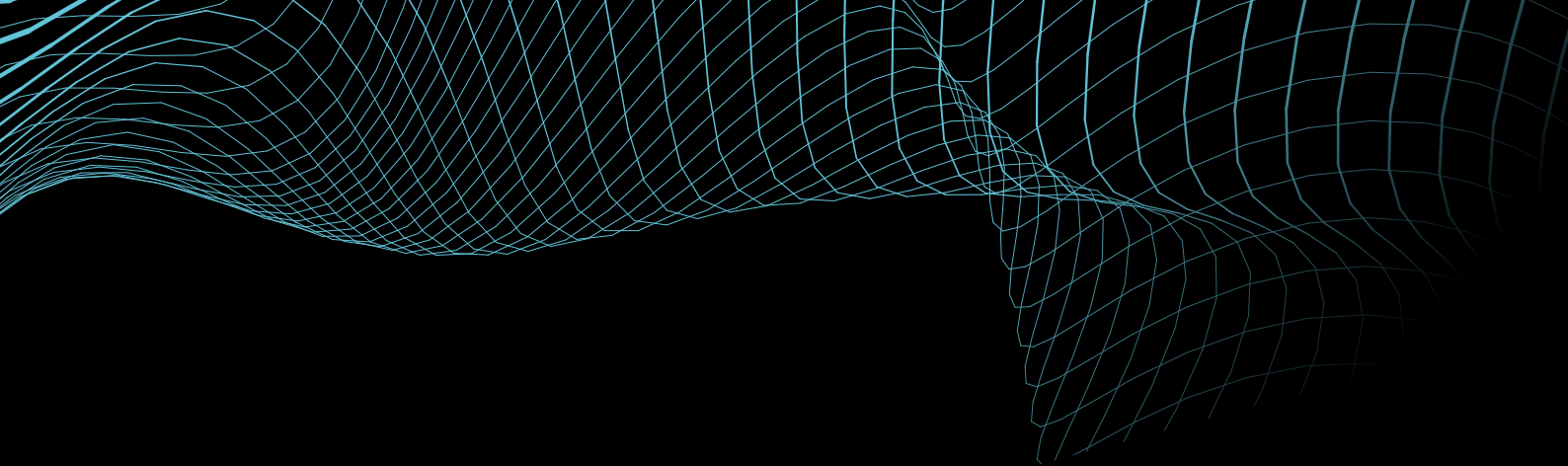
### Standard Compliance and Approvals

Low EMI and excellent ESD protection; IEC 61000-4-2; Laser safety standard IEC-60825 compliant; Compatible with RoHS; Digital Diagnostic SFF-8472 compliant

CODE	DESCRIPTION
OC-LAN-SFP-20	Optic SFP module - 1.25G SM (Single Mode) - 20km 1310nm - LC/PC
OC-LAN-SFP-550	Optic SFP module - 1.25G MM (Multi Mode) - 550mt 850nm - LC/PC
OC-LAN-SFP-2	Optic SFP module - 155Mb MM (Multi Mode) - Dual Fiber - 2km 850nm - LC/PC







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**ETEX**

# Multiservice system solution

By "multiservice physical infrastructure inside a building" we mean the complex of installations inside the buildings containing wired access networks in optical fiber with fixed or wireless termination that allow to provide access to ultra-broadband services and to connect the building access point with the network termination point.

This solution will make it possible to manage the universal services present in all residential buildings such as centralized television, terrestrial and satellite signal, telephony, voice and data at broad and ultra-wideband as well as Telemedicine and Technical Teleservice.

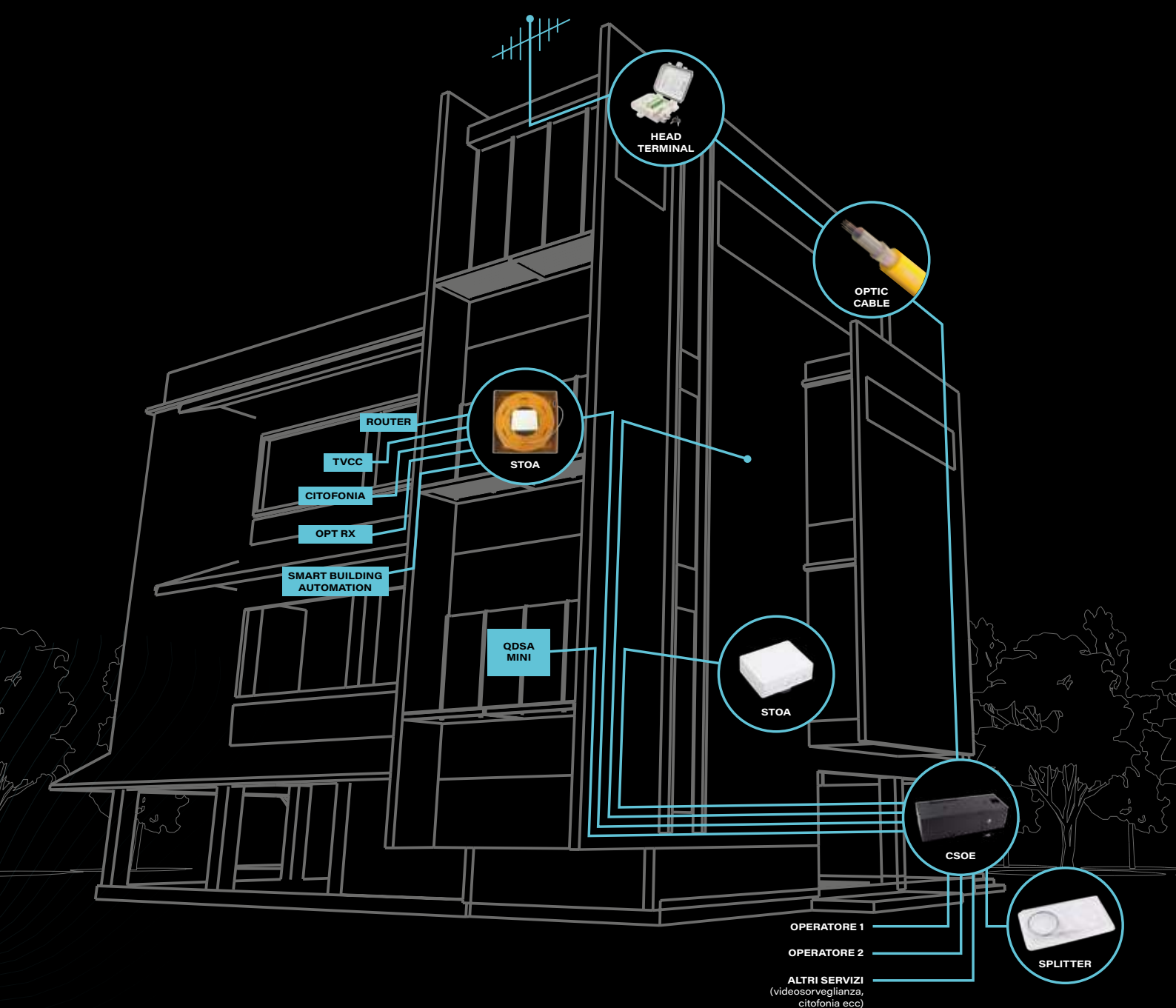
The system will be structured to

manage other universal services for all users of the condominium, such as the video intercom, video surveillance, management of condominium and residential systems. Each service will have its own fiber-optic link infrastructure.

For the realization of a passive multiservice physical infrastructure inside a building, the designer must follow the technical guide CEI CEI 306-22 "Provisions for the infrastructure of buildings with electronic communication systems - Guidelines for the application of the Law 11 November 2014 , no. 164 "which is a necessary but also simplified tool to facilitate the application of Presidential Decree 380/01.

The FTTH service managed by the multiservice system allows the connection between the "horizontal" network that carries the data and voice signals from the telephone exchanges at

the base of the buildings to the entrance of each building unit of the building, called user socket, constituting the so-called "vertical", technically called "fiber optic termination segment".





# CSOE all assembly system

## Stackable

### Application

The Optical Service Center of the Building is the optical box that has the function of a "star-center" or physical place in which the connection is made, between the optical cables coming from the STOA's, from the head terminal and with the geographic cable carried out by the operator ROE (Optical Building Distributor). The CSOE is divided into two sections identified in the Services Area and the Distribution Area.



### Standard Compliance and Approvals

CE and RoHS Compliance, UNI EN ISO 9001



CODE	SIZE (mm)	DESCRIPTION
900009-01	450 x 161,20 x 130	CSOE module for Service distribution - loaded without splitters,
900009-02	450 x 162,4 x 156,20	CSOE module for 8 user distribution - loaded
900009-03	320 x 150 x 105	CSOE plastic box for fiber optic termination, 32 cores.
900009-04	323 x 150 x 65	CSOE slim box for fiber optic termination, 32 cores.

# Head terminal for DVBTv and SAT signals



## Application

The head terminal is an optical box whose function is to collect the radio service signals coming from the roof such as the digital terrestrial antenna signal, satellite and / or connectivity of wireless operators.

## Features

- Size: 250 x 215 x 75 mm
- Loaded with: 8 SC/APC optical adapters
- Wall mount fixing kit

## Standard Compliance and Approvals

IEC 60529 - Guida CEI 306-22



CODE	DESCRIPTION
900007-01	Head terminal box with 8 SC/APC optical adapters

# User termination box



## Application

Apartment optical termination box for connection to the FTTx access network

## Features

**General:** Joint holder folder, wall fixing  
**Material:** Plastic  
**Colour:** White  
**Footprint:** SC SPX flangless



CODE	SLOT	SIZE (mm)	DESCRIPTION
900001-01D	4	100x80x31mm	User termination box with DIN bracket - 4 position SC flangless Simplex (does not include adapters)
900001-02	2	105x82x21mm	User termination box - 2 position SC flangless Simplex (does not include adapters)
900001-03	2	86x115x23mm	User termination box transparent door - 2 position SC flangless Simplex (does not include adapters)
900001-04	2	82x104x23mm	User termination box - vertical 2 position SC flangless Simplex reflector housing (does not include adapters)
900001-01A	-	10 x max. diam. 12mm	BOX single joint protection
900001-01B	-	85x18x10mm	BOX double joint protection with fixing holes

## RELATED PRODUCTS

### Adapters

- 900002-01
- 900002-02

### Pigtail

- 900003-01
- 120728-02



# Fiber Optic Terminal Box

## IP55 and IP56

### Application

Widely Used In FTTH Access Network; CATV Networks; Telecommunication Networks Data Communications Networks; Local Area Networks; Industry Standard User Interface, be made of high impact plastic; Can accommodate PLC splitter; Anti-UV, ultra violet resistant; Rainfall resistant.



### Description

ORCA's Terminal Box is suitable in FTTH project for corridor, basement, room and building's outer walls (pole and wall). It integrates fiber splicing, splitting, distribution, storage and cable connection in one solid protection box.

### Features

**Material:** made of PC+ ABS, high impact plastic, lock provided for extra security  
**Specific:** wall and pole mountable, IP55 or IP66

### Adapter

Adapter with flag slots used – No screws and tools needed for installing adapters



CODE	SIZE (mm)	DESCRIPTION
900001-08	208 x 180 x 45	BOX - 8 position for SC Simplex (adapter not supplied) - IP55
900001-12	245 x 210 x 60	BOX - 12 position for SC Simplex (adapter not supplied) - IP55
900001-24	330 x 225 x 90	BOX - 24 position for SC Simplex (adapter not supplied) - IP55
900001-48	380 x 350 x 125,5	BOX - 48 position for SC Simplex (adapter not supplied) - IP55
900001-04H	186 x 116 x 40	BOX - 4 position for SC Simplex (adapter not supplied) - IP66
900001-08H	225 x 220 x 55	BOX - 8 position for SC Simplex (adapter not supplied) - IP66
900001-12H	225 x 200 x 65	BOX - 12 position for SC Simplex (adapter not supplied) - IP66
900001-24H	317 x 237 x 101	BOX - 24 position for SC Simplex (adapter not supplied) - IP66
900001-08H3	199 x 160 x 46	BOX - 8 position for SC Simplex - 3 cable entries - IP66



# Enclosure Inline

## DOM version



### Application

ORCA enclosure have been specially designed for Aerial, Underground, Wall-mounting, Duct-mounting. Handhole-mounting applications.

### Features

The use of high-strength engineering plastic polymer shell that can endure harsh conditions such vibration, impact, tensile cable distortion and strong temperature changes.

The use of reusable components to open seal in order to ensure a good airtight waterproof performance.

Does not require special tools, easy to install and open the cover. Installation accessories provided.

**Diameter of cable:** from 8 to 23mm

**Standard Capacity:** 48FO



CODE	DESCRIPTION
OC-ACC-MUF-LI-48	INLINE enclosure 48FO 3+3 ports
OC-ACC-MUF-DO-48	DOM enclosure 48FO 4+1 ports

# Optical adapter

## Application

CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Sensor system, Premise Installations, Industrial and Medical



## Description

ORCA® fiber optic adapters are designed and manufactured with an ISO9001 system. A complete line of adapter for any telecommunications application. Available in MultiMode 50/125 µm, OM2/OM3/OM4, OM1 62,5/125 µm and OS2 9/125. Available connector styles include MT-RJ, SC, ST, LC and FC. Feature connectors with ceramic or metal sleeve. Most standard cable assemblies are in stock for immediately ship, special and bulk packages are available and quickly achievable on request.

## Features

High Temperature Stability, High Precision Alignment, Compact design, Low Insertion Loss, High Back Reflection Loss, Hybrid configuration available, Clips or clips/screw mounting, Duplex or Simplex version. ZrO2 zirconia - 125µm Ceramic Sleeve Technology, Plastic in standard colors or Metal housing



## Standard Compliance and Approvals

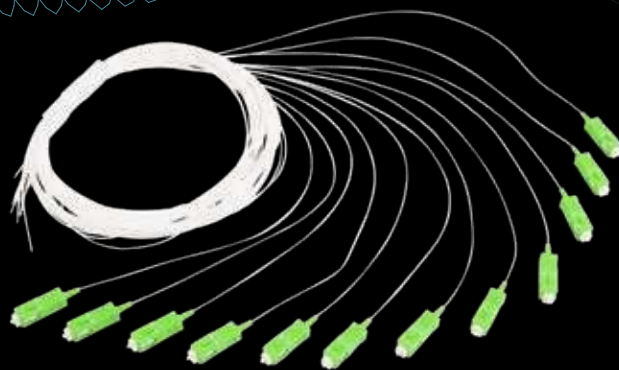
ANSI, TIA/EIA, Telcordia, NTT and JIS Compliance



CODE	PRODUCT	FIBER TYPE	ADAPTER TYPE	MATERIAL	COLOUR
900002-01	Adapter	OS2 - 9/125	SC/APC SPX	Plastic, flangless	Green
900002-02	Adapter	OS2 - 9/125	SC/APC SPX	Plastic, flangless, white flap	Green
900002-03	Adapter	OS2 - 9/125	SC/APC SPX	Plastic, with flange	Green
OC-FAD-SC-MM	Keystone		SC/APC SPX to keystone	Plastic	White
OC-FAD-SC-MMB	Keystone		SC/APC SPX to keystone	Plastic	Black

# Pigtail Singlemode

## 9/125 G657A2 SC/APC



### Application

FTTx application, CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical

### Description

ORCA® pigtails are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each pigtail is factory terminated and tested. Manufactured using quality ORCA cable and connectors. Available for FTTx application in SingleMode 9/125  $\mu$ m OS2 G.652 and G.657.Ax. Available connector styles include SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configurations are available and are quickly made on request.

### Specification

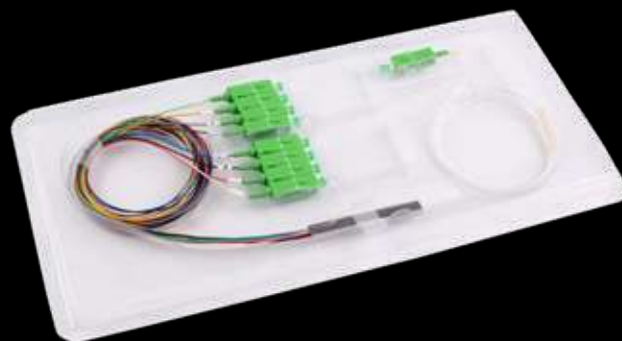
High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900 $\mu$ m buffered fiber assemblies, Duplex (or simplex on request), Factory terminated/factory tested  
ZrO<sub>2</sub> zirconia - 125 $\mu$ m Ceramic Ferrule Technology, semi-tight cable constructions, sheath LSZH  
**Durability Single mode:**  $\leq 0.2$ dB typical change 1000 matings



CODE	FIBER CORE TYPE	COLOUR	DESCRIPTION
900003-01	OS2 - 9/125 - G.657.A2	White	Pigtail Singlemode 9/125 G657A2 SC/APC LSZH 2m (kit 12 pz.)
120728-02	OS2 - 9/125 - G.657.A2	White	Pigtail Singlemode 9/125 G657A2 SC/APC 2m - easystrip
120728-12	OS2 - 9/125 - G.657.A2	Kit 12 colors	Pigtail Singlemode 9/125 G657A2 SC/APC - 2m
131115-06	OS2 - 9/125		FAOC - pre lapped connector SC/APC singlemode 9/125 - 250/900 (moq. 10 pz)



# PLC optical splitter module for FTTH



## Application

PLC (Planar Lightwave Circuit Technology) - Multi Mode and % fractionated available on specific request

## Description

In networks made of optical fiber, the splitting of the signal can take place in an "active" way, by means of a switch equipped with an optical interface, or in a passive way, at the physical level without the need for powered equipment. The devices used for splitting are called optical splitters. The ORCA® "Passive Optical Splitter" splits an optical signal into multiple equal or fractional signals of lower power, and distributes them to end users.

## Features

**Input/output Fiber (1xN):** 250um Bare fiber (White or Clear), 900um±50um (White) Tight buffered Fiber  
**Material of Module case:** SUS 304, or stainless steel tube - Single Mode ITU-G.657A fiber (Including 0.25/0.9mm Cable)  
**Temperature range:** -10/+65 C, Humidity: under 95% RH  
**Return Loss (RL) (dB):** ≥ 55  
**Directivity (dB):** ≥ 55

CODE	DIMENSION	DESCRIPTION
900010-01	1x2 / 1x8 – 4x4x40mm	Optical Spitter 1x2 - MINI, naked, cable in-out 0.9mm*1m
900010-04	1x2 / 1x8 – 4x4x40mm	Optical Spitter 1x4 - MINI, naked, cable in-out 0.9mm*1m
900010-08	1x2 / 1x8 – 4x4x40mm	Optical Spitter 1x8 - MINI, naked, cable in-out 0.9mm*1m
900010-16	1x16 / 1x32 – 7x4x55mm	Optical Spitter 1x16 - MINI, naked, cable in-out 0.9mm*1m
900010-32	1x16 / 1x32 – 7x4x55mm	Optical Spitter 1x32 - MINI, naked, cable in-out 0.9mm*1m
900010-64	1x64 – 12x4x60mm	Optical Spitter 1x64 - MINI, naked, cable in-out 0.9mm*1m
900010-04A	1x2 / 1x8 – 4x4x40mm	Optical Spitter 1x4 naked, cable in-out 0.9mm*1m SC/APC
900010-08A	1x2 / 1x8 – 4x4x40mm	Optical Spitter 1x8 naked, cable in-out 0.9mm*1m SC/APC



# Heat shrinkable sleeve



## Application

CATV and Multimedia; Telecommunication Networks; Data Processing Networks; Gigabit Ethernet; Interconnection for O/E Modules; Industrial, Military and Medical.

## Description

The ORCA® fiber heat shrinkable tube is made of heat shrinkable polymer material. The transparent outer layer is convenient to detect whether the fiber joint is connected correctly, so that the fiber can be assembled in a simple and safe way and provide protection. After Shrinkage, the optical transmission characteristics of the fiber can be maintained to provide strength and protection for the fiber joint. It can avoid the damage of optical fiber during installation.



## General features

Protect connection points and improve mechanical strength  
Does not affect the optical conductivity characteristics of the fiber.

Transparent casing makes the fiber connection clear at a glance  
Simple operation, reduce the risk of optical fiber damage during installation.

For Bare fiber application

**Material:** PE transparent, Steel type SUS 304



CODE	FIBERS	DIAMETER	DESCRIPTION
150000-40	1	2,5mm	Heat shrinkable sleeve 40mm – (conf. 120 Pz.)
150000-60	1	2,5mm	Heat shrinkable sleeve 60mm – (conf. 120 Pz.)
150001-35	1	1,5mm	Heat shrinkable sleeve micro version L 35mm – (conf. 120 Pz.)
150001-30	1	1,5mm	Heat shrinkable sleeve micro version L 30mm – (conf. 120 Pz.)
150002-35	1	1,0mm	Heat shrinkable sleeve slim version L 35mm – (conf. 120 Pz.)
150002-30	1	1,0mm	Heat shrinkable sleeve slim version L 30mm – (conf. 120 Pz.)

# FTTx subscriber optic cable



## Application

This drop cable (COR range) has been designed to meet the needs of connecting subscribers to FTTH networks. Protected by a flame retardant LSOH sheath, the cables have an excellent crush resistance and tensile strength, as well as an exceptionally small diameter.

## Description

4 fo SM G557A2 backbone cable suitable for indoor installation, LSZH flame retardant sheath. The cable contains to his internal Kevlar yarns for greater tensile strength. The peculiarity of the cable, as per legislation, is the structure with a reduced diameter that facilitates the passage inside cable ducts. The G657.A2 Bend Insentitive fiber also has a bend radius extremely low (7.5 mm) which allows for flexion greater than the cable while maintaining the performance of the fibers and without stress-induced attenuation. The cables are perfectly suited for indoor installations to connect subscribers via partions, floor slabs and cluttered shafts.

## Features

Temperatures operation: -5 / +60 ° C

## Construction

**Outer sheath:** Sheath zero halogen, flame retard (LSOH), UV stabilized Ivory color

**Optical fiber:** 4 OS2 G.657.A2 fibers whit low bend radius, semi-tight buffered 900 µm

## Standard Compliance and Approvals

IEC/EN 60793, IEC/EN 60794-1, OC-FTH-900004-01



CODE	DESCRIPTION
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900004-01	Optical fiber optic cable for FTTx application, 4 fibers OS2 G.657.A2 Bend insensitive (4 mm), Ivory
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# Optical Patch Cords

**SC/APC - SC/APC or  
LC/UPC - SC/APC for FTTx**

## Application

FTTx application, CATV and Multimedia, Telecommunication Networks, Active Device Termination, Gigabit Ethernet, Interconnection for O/E Modules, Data Processing Networks, Optical Switch Interframe Connection, Premise Installations, Asynchronous Transmission Mode(ATM), Industrial and Medical



## Description

ORCA® pigtailed are designated and manufactured with an ISO9001 system. A complete line of cable assemblies for any telecommunications application. Each pigtail is factory terminated and tested. Manufactured using quality ORCA cable and connectors. Available for FTTx application in SingleMode 9/125  $\mu\text{m}$  OS2 G.652 and G.657.Ax. Available connector styles include SC, ST, LC and FC. Feature connectors with ceramic ferrules. Most standard cable assemblies are in stock for immediately ship, special configurations are available and are quickly made on request.

## Features

High Temperature Stability, Good Exchangeability, Good Durability, Low Insertion Loss, High Back Reflection Loss, 900 $\mu\text{m}$  buffered fiber assemblies, Duplex (or simplex on request). ZrO<sub>2</sub> zirconia - 125 $\mu\text{m}$  Ceramic Ferrule Technology, semi-tight cable constructions, 1,8 +/-0,2 mm zipcord (or 3 or 1,6 mm on request) sheath LSZH

## Standard Compliance and Approvals

TIE/EIA 568-A Compliant, Telcordia GR-326-CORE, IEC 60874-14, IEC 61754-15/-20, IEC 60332, Bellcore/Telecordia GR-326, Bellcore/Telecordia GR-409, ISO/IEC 11801 2nd Ed., EN 50173, EN188000, Jis C 5973 F04, RoHS 2002/95/EC, ICEA-596, IEC 60793-2-10 A1x, IEC 793, IEC 794-1-E1, IEC 794-1-E3.

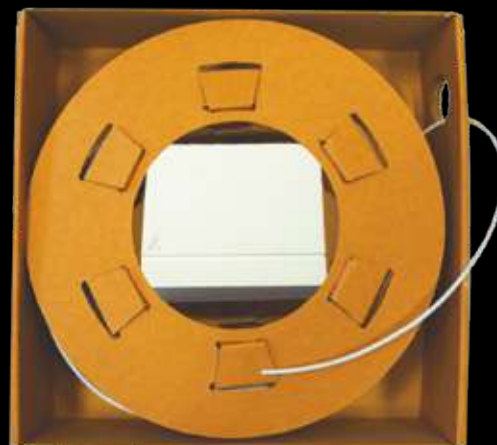


CODE	FIBER TYPE	LENGTH (m)	CONNECTOR SIDE A	CONNECTOR SIDE B
127708-01	SPX	1	SC/APC	SC/APC
127708-02	SPX	2	SC/APC	SC/APC
127708-03	SPX	3	SC/APC	SC/APC
127708-05	SPX	5	SC/APC	SC/APC
127708-10	SPX	10	SC/APC	SC/APC
127718-01	DPX	1	SC/APC	SC/APC
127718-02	DPX	2	SC/APC	SC/APC
127718-03	DPX	3	SC/APC	SC/APC
127718-05	DPX	5	SC/APC	SC/APC
127718-10	DPX	10	SC/APC	SC/APC
127703-01	SPX	1	SC/APC	SC/APC
127703-02	SPX	2	SC/APC	SC/APC
127703-03	SPX	3	SC/APC	SC/APC
127703-05	SPX	5	SC/APC	SC/APC
127703-10	SPX	10	SC/APC	SC/APC
127713-01	DPX	1	SC/APC	SC/APC
127713-02	DPX	2	SC/APC	SC/APC
127713-03	DPX	3	SC/APC	SC/APC
127713-05	DPX	5	SC/APC	SC/APC
127713-10	DPX	10	SC/APC	SC/APC
123718-01	DPX	1	LC/UPC	SC/APC
123718-02	DPX	2	LC/UPC	SC/APC
123718-03	DPX	3	LC/UPC	SC/APC
123718-05	DPX	5	LC/UPC	SC/APC
187703-01	SPX	1	SC/APC	SC/APC
187703-02	SPX	2	SC/APC	SC/APC
187703-03	SPX	3	SC/APC	SC/APC
187703-05	SPX	5	SC/APC	SC/APC
187703-10	SPX	10	SC/APC	SC/APC
187713-01	DPX	1	SC/APC	SC/APC
187713-02	DPX	2	SC/APC	SC/APC
187713-03	DPX	3	SC/APC	SC/APC
187713-05	DPX	5	SC/APC	SC/APC
187713-10	DPX	10	SC/APC	SC/APC



# Pre cabled STOA

Indoor/outdoor  
installation



## Application

FTTx installation

## Description

Product packaged in a special box with unwinding system anti-torsion of the cable to speed up its installation. Pre-assembled and spliced in the factory, and available with different riser cable lengths of 15, 20, 30, 40, 50... meters already assembled and tested 100%.

## Features

**Size:** Small size, 117,5 x 80 x 27,5mm  
G.657.A2 fiber

**Specific:** LSZH Dca

**Fibers:** 4 fibers

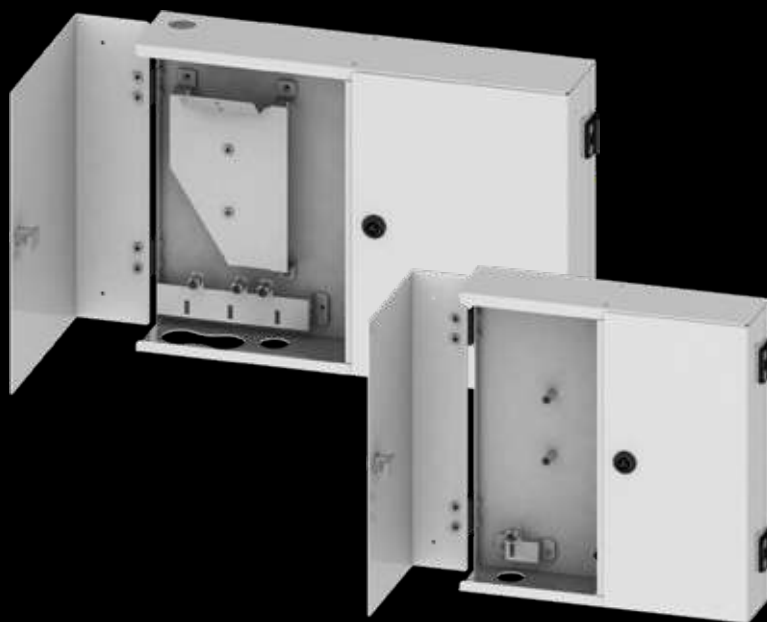
**Type:** SC/APC connected on STOA box with adapters



LENGTH (m)	INSTALLATION	CODE	DESCRIPTION
15	Indoor	2S0090-04-15	Fiber optic trunk 4 FO G.657.A2 connector SC/APC on STOA - CPR Dca
30	Indoor	2S0090-04-30	Fiber optic trunk 4 FO G.657.A2 connector SC/APC on STOA - CPR Dca
50	Indoor	2S0090-04-50	Fiber optic trunk 4 FO G.657.A2 connector SC/APC on STOA - CPR Dca
100	Outdoor	2S0090-04-O100	Fiber optic trunk 4 FO G.657.A2 connector SC/APC on STOA - indoor/outdoor cable 4mm

# TAGLIA 1 e 2

**Termination of optical cables in access networks,  
Floor Box for optical distribution "TAGLIA 1"  
and "TAGLIA 2"**



## Description

ORCA® Fiber Terminal Box is available for small and big capacity communication system, wall mounting, reasonable and compact structure, harmonized with machine room.

The terminal wall box it is the best solution for indoor optical cable distribution or termination.

Provide fusion and storage appliance of fixing, stripping and earthing for optical cables.

Whole range protected design for fiber lay to ensure the right bending radius.

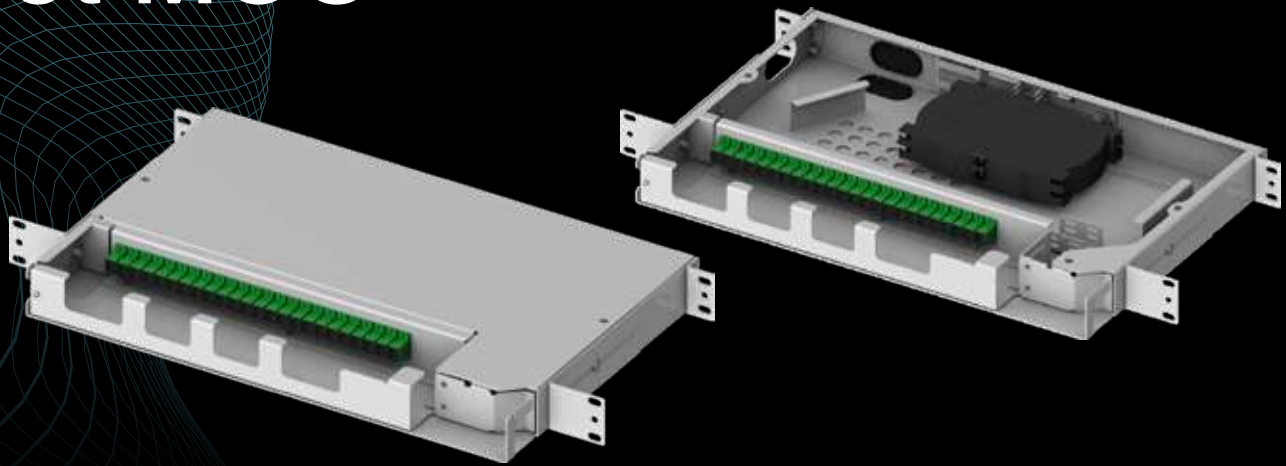
Double front access with opening doors right and left, easy to access. Separation between the operator network and the user network, to ensure optimal fiber management inside the BOX. Possibility to house pre-terminated and spare fibers of the tubes to speed up the installation operations. Personalized locks and keys to prevent access unauthorized.

The Terminal Box include the fiber management accessories (splice tray and cable gland) and to avoid any unexpected damage to the fiber.

## Construction

<b>Standards:</b>	19"/21" EIA/TIA - 1 Rack Units
<b>Material:</b>	Cold Rolled Steel Construction - Low weight
<b>Protection Rating:</b>	IP10
<b>Dimension:</b>	Tagia 1: 270 x 270 x 72 mm Taglia 2: 385 x 270 x 85 mm
<b>Access:</b>	Divided section for cables from costumer side and feeder cable from operator side, Personalized locks and keys to prevent access unauthorized attempts; different locks, different keys for each cover.

# Fiber Optic Pivot MOC



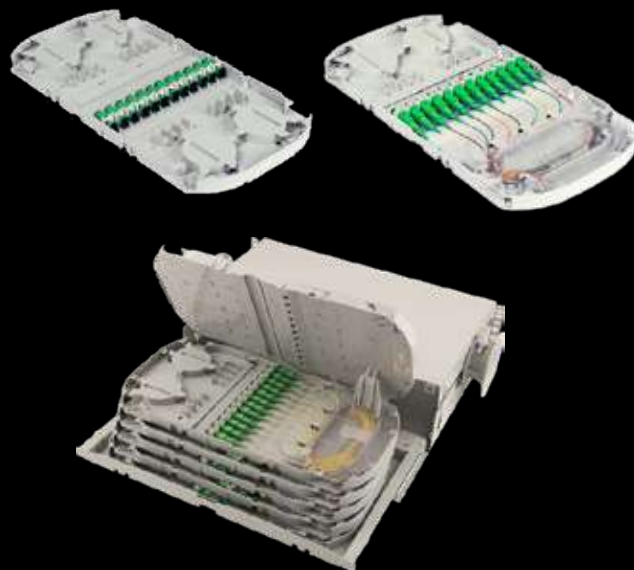
## Description

ORCA®'s Pivot Fiber Patch/Splice Panel is designed for use as a rack mount interconnect point where termination and connectivity of up to -/ fibers is desired. This solution allows for easy access to the front patch cords as well as the splice trays and pigtails after being swing out. All components and the final product are designed and tested to conform comply with the requirements of cable management in the fiber optic system.

## Construction

<b>Standards:</b>	19"/21" EIA/TIA - 1 Rack Units
<b>Material:</b>	Cold Rolled Steel or Aluminum construction, durable textured electrostatic powder coat finish
<b>Protection Rating:</b>	IP10
<b>Dimension:</b>	44x430x280mm – 2,6Kg

# Fiber Optic Patch & Splice 3UR Panel



## Description

ORCA Universal Patch/Splice Module is mainly used for patching only (patch cords, connectorized breakout cables, intra-facility cables) or for splicing loose tube cables and patching the pigtails to patch cords.

Sliding trays are used instead of front patching, pivoting ones when full easy access at both sides of the connection is required. Within the same tray to patch a connector in a different position it is possible with a perfect control of the extra length. Accurate design and compact adapters allow to accommodate termination (using SFF connectors) per tray. Easy-removable adapter holders make easy to access to each connection in the shelf. Kits to attach cables at the side or the back of the shelf are available.

PLC splitters as well as FBT splitters or other optical passive components can be integrated.

Versions preloaded with adapters and pigtails and stackable are available on specific project request.

## Construction

**Standards:** 19"/21" EIA/TIA - 1 Rack Units

**Material:** Cold Rolled Steel or Aluminum construction, durable textured electrostatic powder coat finish

**Protection Rating:** IP10

**Dimension:** 125x440x280mm – 7Kg





TECHNICAL  
SUPPORT

PRODUCT  
CUSTOMIZATION




ORCA LIFETIME  
WARRANTY

TRAINING AND ON  
DEMAND COURSES



WIDE DISTRIBUTORS  
NETWORK



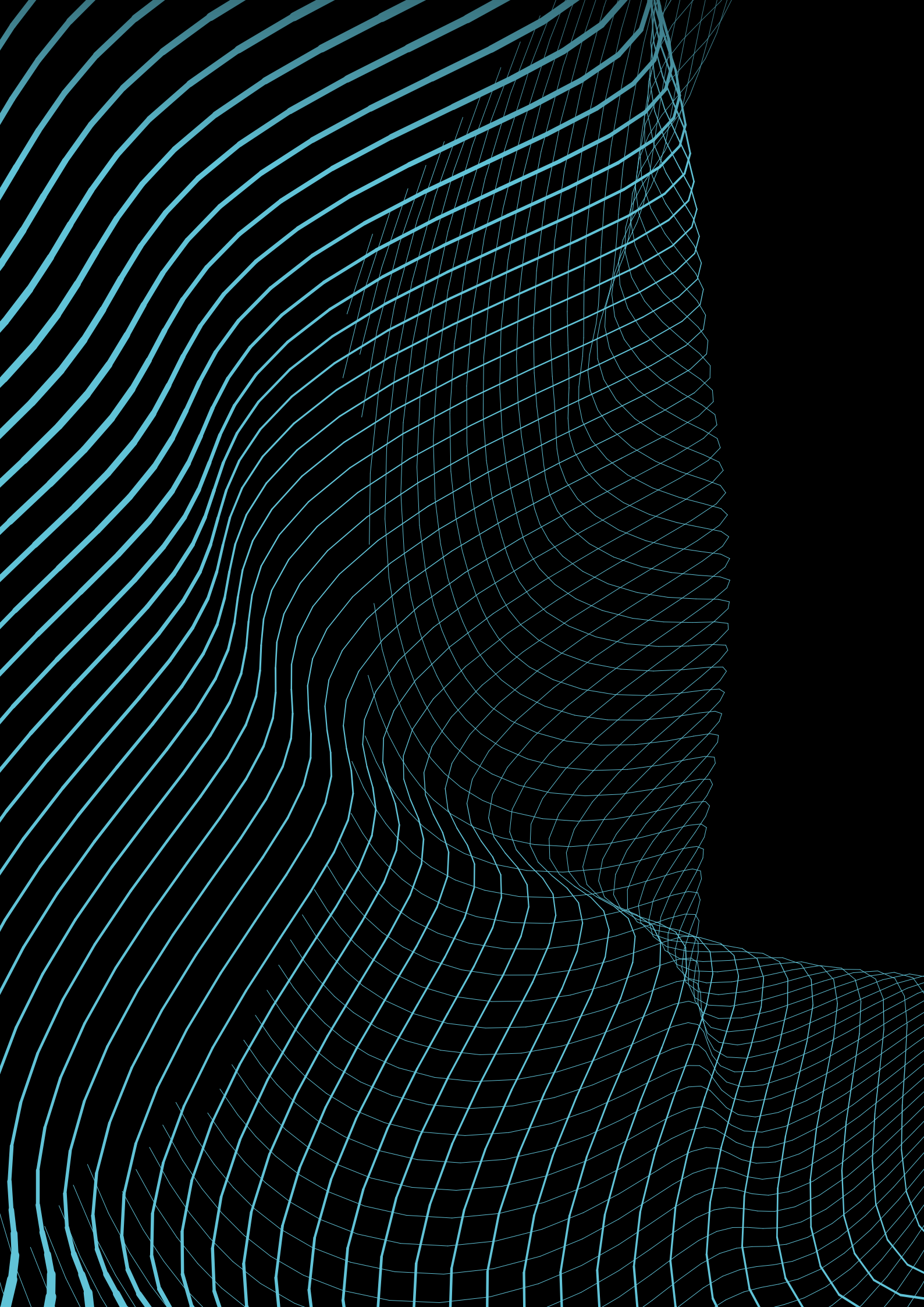
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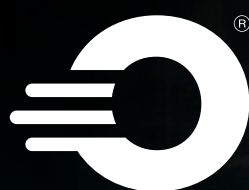
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Strada del Portone 159, 10095 Grugliasco (TO)