

COPPER CABLE



## COPPER CABLE CAT 6 F/UTP 24AWG PVC/PE - Fca



### Application:

Outdoor 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+; conforming to European regulation "CPR" EN 50575

### Construction and characteristics:

|             |                                     |                                                                                                                                                                       |
|-------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor:  | Material                            | Bare Copper                                                                                                                                                           |
|             | AWG Size                            | 24 AWG – 0.52 ±0.01                                                                                                                                                   |
|             | Filler                              | With "+" cross mould separate                                                                                                                                         |
| Insulation: | Material                            | Solid PE                                                                                                                                                              |
|             | Thickness                           | -                                                                                                                                                                     |
|             | Diameter                            | Nominal: 1.03 ±0.08mm x 2C Twist                                                                                                                                      |
|             | Pair colors                         | Bl/WhBl, Or/WhOr, Gr/WhGr, Br/WhBr                                                                                                                                    |
|             | Unaged Elogation                    | -                                                                                                                                                                     |
|             | Unaged Tensile Strength             | -                                                                                                                                                                     |
| Screen      | Material                            | Total Mylar Spiral ≥115% - Al-Pet Shilded ≥115%                                                                                                                       |
| Drain Wire  | Material                            | Tinner Copper T 0.40 ±0.008mm                                                                                                                                         |
| Jacket:     | Material                            | Inner: PVC / Outer: PE – CPR Fca                                                                                                                                      |
|             | Thickness                           | -                                                                                                                                                                     |
|             | Diameter                            | Nominal; Inner: 7.20 ±0.30mm / Outer: 8.80 ±0.25mm                                                                                                                    |
|             | Color                               | Inner: Gray (RAL-7044) / Outer: Black                                                                                                                                 |
|             | Unaged Elogation                    | -                                                                                                                                                                     |
|             | Unaged Tensile Strength             | -                                                                                                                                                                     |
|             |                                     | -                                                                                                                                                                     |
|             | Aging al 100°C for 168h             | -                                                                                                                                                                     |
| Marking     | On cable<br>(black – one per meter) | CABLE F/UTP Cat.6 250MHz 4PxAWG24 OUTDOOR Fca – 211313-04<br>- ISO/IEC 11801 ANSI/TIA-568-C.2<br>- CEI UNEL 36762 (C-4 - Uo=400V) <batch no.> <dd/mm/yy><br><meter> m |

### Reference Standard

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 61156-5-1:2020 (Ed.3.0)

EN 50288-5-1:2013

TIA-568.2-D:2018

CEI UNEL 36762 (C-4 - U<sub>0</sub>=400V)

### Electrical Characteristics and Performance

| Freq.   | Attenuation       | NEXT      | PSNEXT    | Ret. Loss | ACR-F             | PSACR-F           | ACR-N             | PSACR-N        |
|---------|-------------------|-----------|-----------|-----------|-------------------|-------------------|-------------------|----------------|
| (MHz)   | (dB/100m)<br>Max. | (dB) Min. | (dB) Min. | (dB) Min. | (dB/100m)<br>Min. | (dB/100m)<br>Min. | (dB/100m)<br>Min. | (dB/100m) Min. |
| 4       | 3,8               | 66,3      | 63,3      | 23,0      | 56,0              | 53,0              | 62,4              | 59,4           |
| 10      | 6,0               | 60,3      | 57,3      | 25,0      | 48,0              | 45,0              | 54,3              | 51,3           |
| 16      | 7,6               | 57,2      | 54,2      | 25,0      | 43,9              | 40,9              | 49,6              | 46,6           |
| 20      | 8,5               | 55,8      | 52,8      | 25,0      | 42,0              | 39,0              | 47,3              | 44,3           |
| 31,25   | 10,7              | 52,9      | 49,9      | 23,6      | 38,1              | 35,1              | 42,1              | 39,1           |
| 62,5    | 15,5              | 48,4      | 45,4      | 21,5      | 32,1              | 29,1              | 32,9              | 29,9           |
| 100     | 19,9              | 45,3      | 42,3      | 20,1      | 28,0              | 25,0              | 24,4              | 22,4           |
| 155     | 25,3              | 42,4      | 39,4      | 18,8      | 24,2              | 21,2              | 17,1              | 14,1           |
| 175     | 27,1              | 41,7      | 38,7      | 18,4      | 23,1              | 20,1              | 14,6              | 11,6           |
| 200     | 29,1              | 40,8      | 37,8      | 18,0      | 22,0              | 19,0              | 11,6              | 8,6            |
| 250 (*) | 33,0              | 39,3      | 36,3      | 17,3      | 20,0              | 17,0              | 6,3               | 3,3            |

(\*) Data above 250MHz is for reference only.

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Max.Conductor DC Resistance at 20°C (Ω/Km) | <97.6                                        |
| Rated Temperature (°C)                     | 60                                           |
| Velocity ratio                             | Approx. 68%                                  |
| Operating Temperature (°C)                 | PVC/PE: -40/70; PVC only: -20/70             |
| Impedance (Ω)                              | 1-100MHz – (100±15)<br>100-250MHz – (100±20) |

### Ordering information code

OC-CVR-211313-04

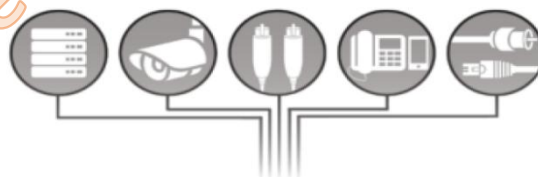
ORCA - COPPER CABLE CAT 6 F/UTP PVC/PE – Fca - Black



|                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CE                                                                                                                                                                                                                                                                                                                                   |
| <b>orca®</b>                                                                                                                                                                                                                                                                                                                         |
| 19<br>DoP No. 190020<br>EN50575: 2014<br>OC-CVR-211313-04                                                                                                                                                                                                                                                                            |
| Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.<br><b>Reaction to Fire: Fca</b><br>Dangerous Substance: None<br><br>www.orca.it |

## OC-CVR-211313-04

Cable Category 6 FUTP PVC-PE 500m  
Cavo Categoria 6 FUTP PVC-PE 500m  
Câble Catégorie 6 FUTP PVC-PE 500m  
Cable Categoria 6 FUTP PVC-PE 500m  
Kabel Kategorie 6 FUTP PVC-PE 500m



VERIFIED PERFORMANCES  
OF ANSI/TIA-568-C.2, ISO/IEC 11801

thank you for choosing ORCA Networking

MADE IN CHINA