

COPPER CABLE



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

### Construction and characteristics:

|             |                                     |                                                                                                                                             |
|-------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor:  | Material                            | Bare Copper                                                                                                                                 |
|             | AWG Size                            | 24 AWG – 0.54 ±0.02                                                                                                                         |
|             | Filler                              | With "+" cross mould separate                                                                                                               |
| Insulation: | Material                            | HDPE                                                                                                                                        |
|             | Thickness                           | -                                                                                                                                           |
|             | Diameter                            | Nominal: 1.05 ±0.08mm x 2C Twist                                                                                                            |
|             | Pair colors                         | Bl/WhBl, Or/WhOr, Gr/WhGr, Br/WhBr                                                                                                          |
|             | Unaged Elogation                    | -                                                                                                                                           |
|             | Unaged Tensile Strength             | -                                                                                                                                           |
| Screen      | Material                            | Mylar Spiral ≥115% and Al-Pet ≥115%                                                                                                         |
| Drain Wire  | Material                            | Tinned copper T0.40 ±0.008                                                                                                                  |
| Jacket:     | Material                            | LSZH – CPR B2ca (s1,d1,a1)                                                                                                                  |
|             | Thickness                           | Nominal: ≥0.65 mm - Average ≥0.70mm                                                                                                         |
|             | Diameter                            | Nominal: 7.60 ±0.40 mm                                                                                                                      |
|             | Color                               | Magenta (RAL-4010)                                                                                                                          |
|             | Unaged Elogation                    | -                                                                                                                                           |
|             | Unaged Tensile Strength             | -                                                                                                                                           |
|             | Aging at 100°C for 168h             | -                                                                                                                                           |
| Marking     | On cable<br>(black – one per meter) | CABLE F/UTP Cat.6 250MHz 4PxAWG24 LSZH B2ca - s1a,d1,a1 –<br>212213-22 - ISO/IEC 11801 ANSI/TIA-568-C.2<br><batch no.> <dd/mm/yy> <meter> m |

### Reference Standard

|                                                               |                                       |
|---------------------------------------------------------------|---------------------------------------|
| 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)             |
| IEC61156-5:2020 (Ed.3.0)                                      | EN60754-2 (Halogen Free)              |
| EN50288-5-1:2013                                              | EN 50399, EN 50575 (Reaction to fire) |
| TIA-568.2-D:2018                                              | CEI UNEL 36762 (C-4 - Uo=400V)        |

### Electrical Characteristics and Performance

| Frequency<br>(MHz) | ATTENUATION<br>(dB/100m)<br>Max. | NEXT<br>(dB)<br>Min. | PSNEXT<br>(dB)<br>Min. | RET. LOSS<br>(dB)<br>Min. | ACR-F<br>(dB/100m)<br>Min. | PSACR-F<br>(dB/100m)<br>Min. | ACR-N<br>(dB/100m)<br>Min. | PSACR-N<br>(dB/100m)<br>Min. |
|--------------------|----------------------------------|----------------------|------------------------|---------------------------|----------------------------|------------------------------|----------------------------|------------------------------|
| 4,0                | 3,8                              | 66,3                 | 63,3                   | 23,0                      | 56,0                       | 53,0                         | 62,4                       | 59,4                         |
| 10,0               | 6,0                              | 60,3                 | 57,3                   | 25,0                      | 48,0                       | 45,0                         | 54,3                       | 51,3                         |
| 16,0               | 7,6                              | 57,2                 | 54,2                   | 25,0                      | 43,9                       | 40,9                         | 49,6                       | 46,6                         |
| 20,0               | 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                         |
| 100,0              | 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                         |
| 175,0              | 27,1                             | 41,7                 | 38,7                   | 18,4                      | 23,1                       | 20,1                         | 14,6                       | 11,6                         |
| 200,0              | 29,1                             | 40,8                 | 37,8                   | 18,0                      | 22,0                       | 19,0                         | 11,6                       | 8,6                          |
| 250,0 (*)          | 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 ( $\Omega$ /Km) | <97,6                                                    |
| Rated Temperature(°C)                                | 60                                                       |
| Velocity ratio                                       | Approx 68%                                               |
| Operating Temperature(°C)                            | -25/70                                                   |
| Impedance ( $\Omega$ )                               | 1-100MHz – (100 $\pm$ 15)<br>100-250MHz – (100 $\pm$ 20) |

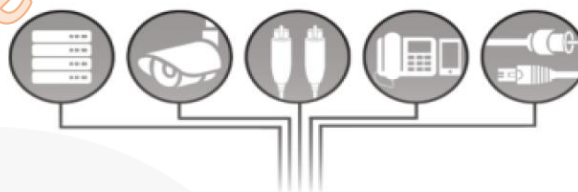
### Ordering information code

OC-CVR-212213-22      ORCA - COPPER CABLE CAT 6 F/UTP LSZH - B2ca - Magenta

|                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>CE</b><br/>0200</p>                                                                                                                                                                                                                                                                                                                                                                        |
| <p><b>orca®</b></p>                                                                                                                                                                                                                                                                                                                                                                              |
| <p>21<br/>DoP No. 10061<br/>EN50575: 2014<br/>OC-CVR-212213-22</p>                                                                                                                                                                                                                                                                                                                               |
| <p>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: B2ca, s1, d1, a1</b><br/>Dangerous Substance: None</p> <p><br/><a href="http://www.orca.it">www.orca.it</a></p> |

# OC-CVR-212213-22

Cable Category 6 FUTP LSZH 500m  
Cavo Categoria 6 FUTP LSZH 500m  
Câble Catégorie 6 FUTP LSZH 500m  
Cable Categoria 6 FUTP LSZH 500m  
Kabel Kategorie 6 FUTP LSZH 500m



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

MADE IN CHINA

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