



## Anwendungen:

Installationskabel für den Einsatz in strukturierter Gebäudeverkabelung nach ISO/IEC 11801 und EN 50173. Bestens geeignet für alle Anwendungen der Klassen D bis FA Multimedia (Video, Daten, Sprache), > 10GbE nach IEEE 802.3, VoIP, PoE, PoE+ Für eine Spannung von max. 75 Volt, - zur Verwendung als Datenübertragungskabel in Telekommunikationsnetzwerken.

## Beschreibung:

Rated temperature: 75°C, Reference standard:ISO/IEC 11801, DIN EN 50288-4-1, DIN EN 50173, IEC 61156-5,IEC 61156-7, EN50288-9-1, Product standard certification: Flame test:EUROCLASS Dca, IEC 60332-1-2 IEC 60332-3-24 Oxygen free copper conductor, Colour-coded PE insulation, LSZH jacket

## Besondere Merkmale

**Eigenschaften**  
halogenfrei  
CPR - Dca

**Mantelfarbe**  
orange

## Physikalische Eigenschaften:

|                 |                                      |                                                                                                  |
|-----------------|--------------------------------------|--------------------------------------------------------------------------------------------------|
| Structure       | Construction                         | S/FTP                                                                                            |
|                 | Number of Pairs                      | 8 Pairs                                                                                          |
| Conductor       | AWG                                  | 23 AWG                                                                                           |
|                 | Conductor material                   | Solid bare copper                                                                                |
|                 | Conductor dimension                  | 0,57+-0,005mm                                                                                    |
| Insulation      | Insulation material                  | Foam PE                                                                                          |
|                 | Insulation dimension                 | 1,38+-0,10mm                                                                                     |
|                 | Number color                         | 1 white/blue & blue<br>2 white/orange & orange<br>3 white/green & green<br>4 white/brown & brown |
| Cabling         | Twisting lay lenght                  | <30mm                                                                                            |
|                 | Cabling lay lenght                   | <200mm                                                                                           |
| Shield          | Individual shield & material         | AL-Foil                                                                                          |
|                 | Primary overall shield & material    | AL-MG alloy wire braid                                                                           |
|                 | Shield coverage approx               | >25%                                                                                             |
| Outer Jacket    | Jacket material                      | LSZH                                                                                             |
|                 | Jacket thickness nominal             | 0,50mm                                                                                           |
|                 | Overall nominal dimension            | 7.50 ±0.30mm                                                                                     |
|                 | Jacket rip cord                      | None                                                                                             |
| Mechanical      | Operating temperature range          | -20°C - +75°C                                                                                    |
| characteristics | Max. recommended pulling tension     | 110N                                                                                             |
|                 | Min. bend radius (install)           | 8x O.D.                                                                                          |
|                 | Outer jacket elongation              | >100%                                                                                            |
|                 | Outer jacket aging condition         | 100°C x 168 hrs                                                                                  |
|                 | Cold bend (static)                   | No Crack (@ -20°C x 4hrs)                                                                        |
| Electrical      | Nom. mutual capacitance              | < 5.6 nF/100m (@1kHz)                                                                            |
| characteristics | Pair to ground capacitance unbalance | < 160 pF/100m                                                                                    |
|                 | Nominal velocity of propagation      | 77%                                                                                              |
|                 | Max. delay skew                      | 25 ns/100m                                                                                       |
|                 | Max. conductor DC resistance         | 9.5 Ω/100m (@ 20°C)                                                                              |
|                 | Min. insulation resistance           | 5000 MΩ.km                                                                                       |
|                 | Max. operating voltage - UL          | 300V                                                                                             |
|                 | Dielectric strength                  | 2,5kV d.c. for 2s                                                                                |

## Elektrische Eigenschaften:

| Frequency MHz | Attenuation dB/100m | NEXT dB/100m | PSNEXT dB/100m | Return loss dB/100m | ELFEXT dB/100m | PSELFEXT dB/100m |
|---------------|---------------------|--------------|----------------|---------------------|----------------|------------------|
| 4             | 3,74                | 78,0         | 75,0           | 23,0                | 78,0           | 75,0             |
| 10            | 5,86                | 78,0         | 75,0           | 25,0                | 74,0           | 71,0             |
| 16            | 7,41                | 78,0         | 75,0           | 25,0                | 69,9           | 66,9             |
| 31,25         | 10,41               | 78,0         | 75,0           | 23,6                | 64,1           | 61,1             |
| 62,5          | 14,88               | 75,5         | 75,0           | 21,5                | 58,1           | 55,1             |
| 100           | 19,02               | 72,4         | 69,4           | 20,1                | 54,0           | 51,0             |
| 250           | 30,97               | 66,4         | 63,4           | 17,3                | 46,0           | 43,0             |
| 300           | 34,19               | 65,2         | 62,2           | 17,3                | 44,5           | 41,5             |
| 400           | 40,01               | 63,4         | 60,4           | 17,3                | 42,0           | 39,0             |
| 550           | 47,72               | 61,3         | 58,3           | 17,3                | 39,2           | 36,2             |
| 600           | 50,10               | 60,7         | 57,7           | 17,3                | 38,4           | 35,4             |
| 700           | 54,60               | 59,7         | 56,7           | 17,3                | 37,1           | 34,1             |
| 800           | 58,90               | 58,9         | 55,9           | 17,3                | 35,9           | 32,9             |
| 1000          | 66,90               | 57,4         | 54,4           | 17,3                | 34,0           | 31,0             |

## Ausführung

## Aufmachung

## Außen Ø mm

## Artikelnummer

EL-Pro S/FTP 2x4x2xAWG23/1 1300MHz Cat.7 orange

500m

7,5x14,8

11389992