



## CAT.7 PUR CABLE

TWISTED PAIR, S/FTP

### SC-MERCATOR CAT.7 PUR, SC-MERCATOR CAT.7 PUR XL

10  
Gbit



NEW!

⊗ MOBILE ⊗ STUDIO ⊗ INSTALL

DIGITAL FRNC HALOGEN-FREE PUR OFC

*CATlike agility and mobility...*

The **MERCATOR CAT.7 PUR** is the perfect cable for mobile outdoor transmissions of digital audio or network signals, e.g. for use in OB vans. Ethersound signals can be transmitted easily over > 100 m. Its halogen-free, flame-retardant PUR jacket (according to IEC60332.1) is extremely notch- and tread-resistant, cold-flexible and easy to reel. The wires are fitted with a foam-skin PE insulation and shielded in pairs with an ALPT foil (PimF). The overall screen consists of Cu mesh plus fleece. This ensures optimal transmission properties over long distances.

The **MERCATOR CAT.7 PUR XL** with its large wire cross-section (AWG23) is the ideal choice for extremely long transmission distances of up to 125 m.

#### APPLICATION:

- PUR version for mobile OB van use and outdoor applications
- For all CAT.5e, CAT.6, CAT.6A and CAT.7 transmissions

#### PRODUCT ADVANTAGES:

- Safe data transfer due to high-quality insulation and shielding
- Great durability due to a special, extremely robust jacket compound
- Outdoor temperature resistant, easy to reel

FREE SAMPLE  
AVAILABLE!

#### TECHNICAL DATA

	CAT.7 PUR	CAT.7 PUR XL
Construction:	SFTP 4x2x0.14 mm <sup>2</sup>	SFTP 4x2x0.26 mm <sup>2</sup>
Jacket, diameter:	PUR 6.5 mm	PUR 8.5 mm
AWG:	AWG26/7	AWG23/7
Copper strand per conductor:	7 x 0.16 mm	7 x 0.22 mm
Conductor insulation:	Foam/skin-PE	Foam/skin-PE
Shielding:	Copper braiding tin-plated (total)	Copper braiding tin-plated (total)
Shielding factor:	100 %	100 %
Temperature range:	-20 °C...+60 °C	-20 °C...+60 °C
Fire load per m:	0.19 kWh	0.23 kWh
Weight per 1 m:	40 g	80 g
Packaging:	100/500 m roll	100/500 m roll
Matching plug:	RJ45, all standards	RJ45C6XL

#### ELECTRICAL DATA

Capac. cond./cond. per 1 m:	45 pF	44 pF
Insulat. resistance per 1 km:	> 2 GΩ	5 GΩ
Max. section length:	CAT.5e: 130 m	CAT.5e: 150 m
Surge impedance:	100 Ω (+/- 5 Ω)	100 Ω (+/- 5 Ω)
Loop resistance:	max. 290 Ω/m	max. 290 Ω/m
Velocity factor:	0.75	0.75
Maximum delay per 100 m:	450 ns @100 MHz	470 ns @100 MHz
Max. delay (skew):	10 ns @100 MHz/100 m	15 ns @100 MHz/100 m
Damping (ACR) per 100 m (20 °C):	16 MHz: 10.5 (90) dB 100 MHz: 25.9 (74) dB 200 MHz: 37.5 (58) dB 350 MHz: 51.0 (45) dB 600 MHz: 66.5 (23) dB 1000 MHz: 88.5 (4) dB	16 MHz: 7.2 (88) dB 100 MHz: 19.0 (69) dB 200 MHz: 27.5 (57) dB 350 MHz: 36.5 (44.5) dB 600 MHz: 49.3 (28.7) dB 1000 MHz: 69.2 (8) dB

#### COLOR

- ★ black
- ★ grey
- ★ violet

#### ORDER NO.

- 581-0071**
- 581-0076**
- 581-0078**

#### ORDER NO.

- 581-0251**