Cat 7+ S/FTP installation cable

Twisted pair, 1000 MHz, Class F, AWG 23/1

Item No.: PN-IK-7+-1000-AWG22-G-C-OR (approx.)



The Cat. 7+ S/FTP installation cable features the following cable construction: 4x2xAWG23/1 and achieves a transmission frequency of 1000 MHz. The cable sheath is halogen-free and is available in fire protection classes $B2_{CA}$, C_{CA}, $D_{CA}$and E_{CA}. The cable is suitable for structured building cabling in secondary and tertiary areas. The cable is available in 1000m reels.

Physical & Mechanical Characteristics

Conductors:	Bare copper wire, Ø 0.58 mm, 8 conductors, twisted into 4 pairs
Insulation:	SFS-PE (foamed polyethylene sheath)
Colour code:	blue-white, orange-white, green-white, brown-white
Pair shielding:	aluminium-laminated polyester film, providing 100% coverage
Overall shielding:	Copper braiding
Outer sheath:	Halogen-free (FRNC-A/LSZH-1), orange (RAL 2000)
Tensile strength:	150 N max.
Bending radius:	Dynamic: 8x ADmm min./ Static: 4x ADmm min.
Operating temperature:	-20°C to +60°C
Flame resistance:	IEC 60332-3-22
Fire load:	620 MJ/km DCA 100 MJ/km CCA

Fire resistance class	$B2_{CA}$	C_{CA}	D_{CA}	E_{CA}
Outer sheath thickness	0.60mm	0.60mm	0.52 mm	0.50mm
Outer diameter	7.8 mm	7.8 mm	7.6 mm	7.6 mm
Cable weight approx.	65.0 kg/km	65.0 kg/km	65.0 kg/km	49.5 kg/km
Weight with drum	57.5 kg/km	57.5 kg/km	54.5 kg/km	51.5 kg/km

Applicable standards

ISO/IEC 11801
EN 50173
EN 50288-4-1
IEC 60332-3-22
IEC 61034

Electrical properties

Dielectric impedance:	100±5 ohms at 1000 MHz
Capacitance:	56 pF/m nominal @ 1kHz
Capacitance asymmetry:	1.6 pF/m max. @ 1 kHz (pair-to-earth)
Insulation resistance:	5 GOhm x km min.
DC resistance:	95 ohms/km max. (2% max. unbalanced resistance)
Loop resistance:	190 ohms/km max. (2% max. unbalanced resistance)
Operating voltage:	72 Vdc max.
Phase delay:	570 nS/100m max.
Propagation delay:	25 nS/100m max.
Isolation class:	'd' in accordance with EN 50174-2
NVP:	75%
CPR:	Cca. s1a d0 a1
Nominal conductor cross-section:	0.2827mm²
Conductor class:	Ki.1 = single-strand

