Cat 7A S/FTP installation cable

Twisted Pair, 1500MHz, Klasse F, AWG 22/1

Item No.: PN-IK-7A-1000-AWG22-G-C (Cca)
Item No.: PN-IK-7A-1000-AWG22-G-D (Dca)



The Cat. 7A S/FTP installation cable features the following cable construction: 4x2xAWG22/1 and achieves a transmission frequency of 1500 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 500m or 1000m reels.

Physical & Mechanical Characteristics

Conductors:	Bare copper wire, Ø 0.6 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-C/LSZH-3), orange (RAL 2000)
Tensile strength:	150 N max.
Bending radius:	Dynamic: 8× AD mm min./ Static: 4× AD mm min.
Operating temperature:	-20°C to +60°C
Flame resistance:	IEC 60332-3-22
Fire load:	620 MJ/km DCA 100 MJ/km CCA

Brandschutzklasse	$B2_{CA}$	C_{CA}	D_{CA}	E_{CA}
Outer sheath thickness	0,60mm	0,60mm	0,52mm	0,50mm
Outer diameter	8.0 mm	8.0 mm	7.8 mm	7.8 mm
Cable weight approx..	65.0kg/km	65.0kg/km	65.0kg/km	49.5kg/km
Weight with drum	57.5kg/km	57.5kg/km	56.5kg/km	56.5kg/km

Applicable standards

ISO/IEC 11801 2nd Ed.
IEC 61156-5
EN 50173-1/4
EN 50288-9-1

Electrical characteristics

Through-impedance:	100±5 ohms at 100 MHz
Capacitance:	56 pF/m nominal @ 1 kHz
Capacitance asymmetry::	1,6 pF/m max. @ 1 kHz (pair-to-earth)
Insulation resistance:	5 GOhm x km min.
DC resistance:	72 ohms/km max. (2% max. unbalanced resistance)
Loop resistance:	147 ohms/km max. (2% max. unbalanced resistance)
Operating voltage:	72 Vdc max.
Phase delay:	570 nS/100 m max.
Propagation delay:	25 nS/100 m max.
Isolation class:	'd' in accordance with EN 50174-2
NVP:	75%
CPR:	Dca s2 d2 a1 Cca s1a d0 a1
Leiter-Nennquerschnitt:	0.2827mm^2
Leiter- Klasse:	Ki.1 = single-strand

