

SLPCF5eP-B-X

Patch Cord Cable Category 5e – FTP PVC

General standards

- International standard: ISO/IEC 11801 2nd edition (2002) and ISO/IEC 11801 Amendment 2 (2010)
- European standard: EN 50173-1 (2002) and EN 50173-1 Amendment 1 (2009)
- U.S. Standards: ANSI/TIA/EIA 568-B.2-1 (2002)

Physical dimensions

1- Conductor

Material: Solid bare copper ETP
Diameter: AWG 24

2- Insulation

Material: Polyethylene
Nominal diameter over insulation: 1.05 mm

3- Cable core

Pair: 2 twisted insulated conductors
Number of pairs: 4, all twisted together
Color code pair 1: White / Blue & Blue
Color code pair 2: White / Orange & Orange
Color code pair 3: White / Green & Green
Color code pair 4: White / Brown & Brown
Foil: Overlapping polyester foil over cable core

4- Foil shielding

Material: Laminated Aluminum / Polyester
Position aluminum: Facing outside, in contact with drain wire
Drain wire material: Solid tinned copper
Drain wire diameter: AWG26
Braid material: solid tinned copper
Coverage: $\geq 30\%$

5- Jacket

Material: LSNH
Diameter: 6.0 ± 0.3 mm

6- Length / Colors

Length: 1, 2, 3 and 5 meters
Colors: Blue, Gray, white, off white, Green, Yellow



Electrical characteristics

Low frequency and D.C. (at 20°C)	Specifications
D.C. resistance conductor	< 9,5 Ω/100m
Resistance unbalance: within a pair / between pairs	< 2 / < 4 %
Insulation resistance	≥ 5000 MΩ.km
Dielectric strength conductor-conductor (2 sec.)	2.5 kV DC
Mutual capacitance	< 56 nF/km
Capacitance unbalance pair to ground	< 1600 pF/km
Nominal velocity of propagation (for information only)	> 0.6 c
Delay skew (differential delay)	≤ 40 ns/100m
Transfer impedance according IEC 61156-5	Grade 2
Coupling attenuation according IEC 61156-5	Type II
Reaction to fire according EN50575	Dca-s1,a1,d1

High frequency (at 20°), reference standard: ISO/IEC61156-5

TYPE	1*	4	10	16	20	31.25	62.5	100	155	250	350	MHz
Attenuation	2.0	4.0	6.3	8.0	9.0	11.4	16.5	21.3	27.2	35.8	43.5	dB/100m
NEXT	65.3	56.3	50.3	47.2	45.8	42.9	38.4	35.3	32.4	29.3	27.1	dB/100m
PS NEXT	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3	29.4	26.3	24.1	dB/100m
ACR	63.2	52.32	44.0	39.2	36.8	31.5	21.8	14.0	5.2			dB/100m
PS ACR	60.2	49.3	41.0	36.2	33.8	28.5	18.9	11.0	2.2			dB/100m
ACR-F	64.0	52.0	44.0	39.9	38.0	34.1	28.1	24.0	20.2	16.0	13.1	dB/100m
PS ACR-F	61.0	49.0	41.0	36.9	35.0	31.5	25.1	21.0	17.2	13.0	10.1	dB/100m
Return Loss	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.8	17.3	17.3	dB/100m
TCL level 1	40.0	34.0	30.0	28.0	27.0	25.1	22.0	20.0	17.0	16.0	14.6	dB/100m
EL TCTL	35.0	23.0	15.0	10.9	9.0	5.5						dB/100m
Impedance upper limit	122.2	115.2	111.9	111.9	111.9	114.1	118.3	121.9	126.0	131.5	131.6	Ω
Impedance lower limit	81.8	86.8	89.4	89.4	89.4	87.7	84.5	82.0	79.3	76.0	76.0	Ω
Propagation delay	570	552	545	543	542	540	539	538	537	536	536	ns/100m

Mechanical Characteristics

	Specifications
Elongation at break of the conductors	10%
Minimum elongation at break of the insulation	≥ 100 %
Minimum elongation at break of the sheath	≥ 100 %
Tensile strength of sheath	> 9 MPa



Overall characteristics

	Specifications
Maximum operating voltage (for all temperatures cable is intended to be used)	72 V D.C.
Maximum continuous current per conductor (@25°C)	1.5 A
Temperature rating installation	0 / 50 °C
Temperature rating operation	- 20 / 60 °C
Total cable weight	30 kg/km
Minimum bending radius (during operation and installation)	20 / 40 mm
Maximum pulling strength	65 N
Burning load	335 kJ/m
Reaction to fire according IEC 60332-1	Pass
Reaction to fire according EN 50575	Eca

PRODUCT Family

SLPCF5eP-B-X	Blue
SLPCF5eP-GY-X	Gray
SLPCF5eP-W-X	White
SLPCF5eP-OW-X	Off White
SLPCF5eP-GN-X	Green
SLPCF5eP-Y-X	Yellow

