

SLCASF6P-B

UTP Cable Category 6- SFTP 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 23

2- Insulation

Material: Polyethylene
Nominal diameter over insulation: 1.35 mm

3- Cable core

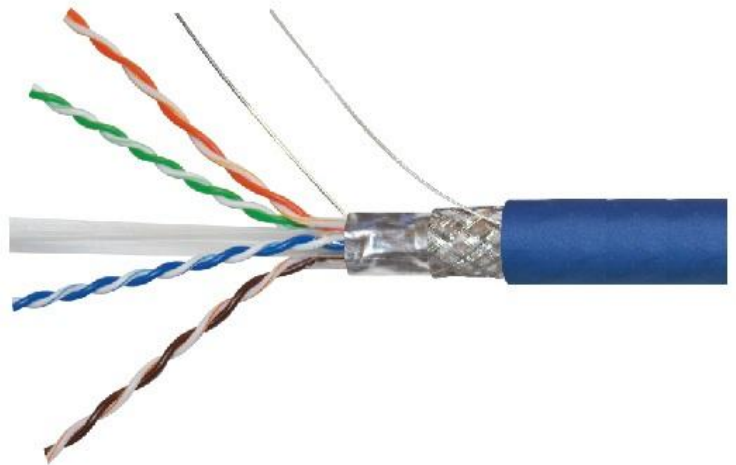
Pair: 2 twisted insulated conductors
Cross Web: Polyolefin
Number of pairs: 4, all twisted together
Color code pair 1: White / Blue & Blue
Color code pair 2: White / Orange & Orange
Color code pair 3: White / Green & Green
Color code pair 4: White / Brown & Brown
Foil: Overlapping polyester foil over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

4- Foil shielding

Material: Laminated Aluminum / Polyester
Position aluminum: Facing outside, in electrical contact with drain wire
Drain wire diameter: AWG 26
Braid material: Solid tinned copper
Coverage: $\geq 40\%$

5- Jacket

Material: Polyethylene
Diameter: 7.5 ± 0.3 mm



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	$\geq$ 5000 M Ω .km
Dielectric strength conductor-conductor and conductor-screen (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)	$\leq$ 40 ns/100m
Transfer impedance according IEC 61156-5	Grade 2
Coupling attenuation according IEC 61156-5	Type II

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

TYPE	1*	4	10	16	20	31.2	62.5	100	155	200	250	MHz
Attenuation	2.1	3.8	6.0	7.6	8.5	10.7	15.5	19.9	25.3	29.1	33.0	dB/100m
NEXT	75.3	66.3	60.3	57.2	55.8	52.9	48.4	45.3	42.4	40.8	39.3	dB/100m
PS NEXT	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	39.4	37.8	36.3	dB/100m
ACR	73.2	62.4	54.3	49.6	47.3	42.1	32.9	25.4	17.1	11.6	6.3	dB/100m
PS ACR	70.2	59.4	51.3	46.6	44.3	39.1	29.9	22.4	14.1	8.6	3.3	dB/100m
ACR-F	70.0	58.0	50.0	45.9	44.0	40.1	34.1	30.0	26.2	24.0	22.0	dB/100m
PS ACR-F	67.0	55.0	47.0	42.9	41.0	37.1	31.1	27.0	23.2	21.0	19.0	dB/100m
Return Loss	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.8	18.0	17.3	dB/100m
Impedance upper limit	122.2	115.2	111.9	111.9	111.9	114.1	118.3	121.9	126.0	128.8	131.5	Ω
Impedance lower limit	81.8	86.8	89.4	89.4	89.4	87.7	84.5	82.0	79.3	77.6	76.0	Ω
Propagation delay	570	552	545	543	540	539	538	537	537	537	536	ns/100m

Mechanical Characteristics

	Specifications
Elongation at break of the conductors	8%
Minimum elongation at break of the insulation	$\geq$ 100 %
Minimum elongation at break of the sheath	$\geq$ 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	- 30 / 60 °C
Total cable weight	51 kg/km
Minimum bending radius (during operation and installation)	30 / 60 mm
Maximum pulling strength	110 N
Burning load	1000 kJ/m
Amount of halogen acid gas acc. to IEC 60754-1/2 & EN50267-1/2; pH	> 4.3
Amount of halogen acid gas acc. to IEC 60754-1/2 & EN50267-1/2; Conductivity	< 10 µS/mm
Reaction to fire according EN50575	Fca

PRODUCT Family

SLCASF6P-B	Blue
SLCASF6P-GY	Gray
SLCASF6P-W	White
SLCASF6P-OW	Off White
SLCASF6P-GN	Green
SLCASF6P-Y	Yellow

