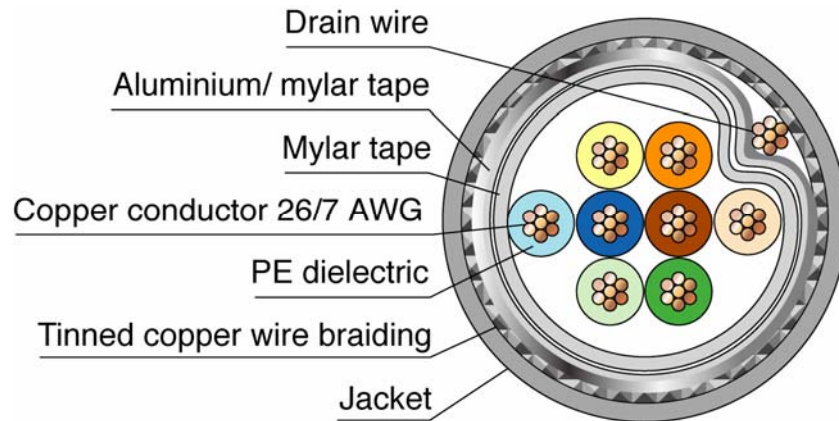


L02002A0111	SF/UTP Cat.5 PUR
Industrial Patch Cable	100Ω Data Cable IEC 61156-6 Cat.5



Application	Tertiary (Horizontal) IEEE 802.3: 10Base-T; 100Base-T; Gigabit-Ethernet
Standards	EIA/TIA 568-B.2; IEC 61156-6; ISO/IEC 11801; EN50173; EN50288-2-2
Fire Rating	IEC 60332-1; UL 1581 FT2 (horizontal flame test)

Construction

Conductor	Stranded bare copper wire Ø 0.48 mm, AWG 26/7 (7 x AWG34, 7 x 0.16)
Insulation	Polyethylene, Ø 0.95±0,05 mm
Twisting	2 cores to the pair 1: white-blue / blue 2: white-orange / orange 3: white-green / green 4: white-brown / brown
Cable lay up	4 pairs with different pitches stranded in circular form
Shielding	Mylar tape as buffer layer. Mylar tape laminated with aluminum foil as shield, with foil facing outward. Drain wire placed between aluminum-foil-laminated Mylar tape and Tinned copper wire braiding.
Outer jacket	Tinned copper wire braiding, with min. 65% coverage
Outer diameter	PUR RAL 6018 5.8 mm ± 0.2 mm
Marking	Cat.5 SF/UTP 4x2xAWG26/7 PUR LI2Y(ST)C11Y IEC 60332-1 -40°C ~ +75°C (sequential length in metres)
Weight	39.394 Kg/km

Mechanical Properties

Bending radius	≥ 5xOD
Temperature range,	
during operation	-40 °C up to 75 °C
during installation	-10 °C up to 60 °C

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Electrical Properties (at 20°C ± 5°C)

DC resistance	max. 14.0 Ω / 100 m at 20 °C
Resistance unbalance	max. 5 % at 20 °C
Insulation resistance (500V)	min. 5000 MΩ/Km at 20 °C
Mutual capacitance	nom. 5.1 nf / 100 m at 1 kHz
Capacitance unbalance (pair to ground)	max. 160 pf / 100 m at 1 kHz
Characteristic impedance (1-100 MHz)	100 Ω ± 15 Ω
Nominal velocity of propagation	66 %
Test voltage (DC, 1 min)	1 kV / 1 min

Transmission characteristics acc. to IEC 61156-6 Cat.5 (at 20 °C)

Frequency (MHz)	Impedance (Ω) Min.	Attenuation (dB) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ACR (dB) Min.	PSACR (dB) Min.
1	100 ± 15	NA	65.3	62.3	62.2	59.2
4		6.4	56.3	53.3	50.2	47.2
8		8.7	51.8	48.8	43.2	40.2
10		9.6	50.3	47.3	40.6	37.6
16		12.3	47.3	44.3	34.9	31.9
20		13.6	45.8	42.8	31.9	28.9
25		15.2	44.3	41.3	28.7	25.7
31.25		17.1	42.9	39.9	25.3	22.3
62.5		24.8	38.4	35.4	12.9	9.9
100		32.0	35.3	32.3	2.3	—

Frequency (MHz)	ELFEXT (dB) Min.	PSELFEXT (dB) Min.	Return Loss (dB) Min.	Propagation Delay (ns) Max.	Delay Skew (ns) Max.
1	63.8	60.8	(20)	570.0	45
4	51.7	48.7	23.0	552.0	
8	45.7	42.7	24.5	546.7	
10	43.8	40.8	25.0	545.4	
16	39.7	36.7	25.0	543.0	
20	37.7	34.7	25.0	542.1	
25	35.8	32.8	24.2	541.2	
31.25	33.9	30.9	23.3	540.4	
62.5	27.8	24.8	20.7	538.6	
100	23.8	20.8	19.0	537.6	

Packing

Parts number	Product	Color	Length	Package	Dimensions (cm)
L02002C0068	S/FTP Cat.5 Patch cable	Green RAL6018	1000 ft (305m)	Reel carton	33 × 26.5 × 34
L02002D0068	SF/UTP Cat.5 Patch cable	Green RAL6018	100m	Per roll	