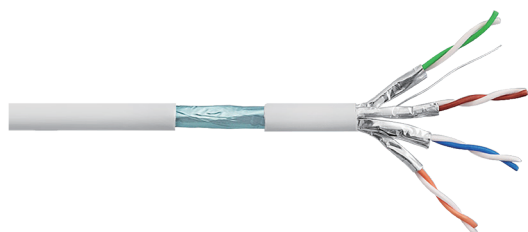


ECS STP6A Cat.6A F/FTP Cable



Features

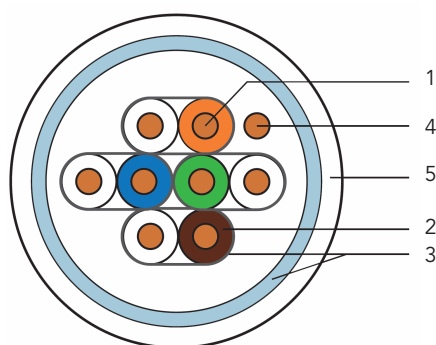


- Flame tested to EN50399 Dca-s1,d1,a1
- Flame tested to IEC 60332-1
- Transmission tested to 500MHz Cat.6A according to: EN 50173, ISO 11801 class EA, ANSI/TIA-568.2-D, IEC 61156-5
- EN 50174-2 Segregation classification d
- Double shielding provides greater protection from each pairs and other cables, RFI and EMI
- POE++ tested to IEEE 802.3bt 100W, Bundle size 37 pcs
- RoHS compliant in accordance with Directive 2011/65/EU, as amended by (EU) 2015/863

Applications

- 10BASE-T Ethernet
- 100BASE-T (Fast Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 10GBASE-T (10 Gigabit Ethernet)

Construction



Construction features

1. Conductor	Annealed Bare Copper
2. Insulation	Foamed PE
3. Shielding	Aluminum Mylar Tape
4. Drain Wire	Tinned Copper
5. Outer Jacket	LSZH

Colour



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Subject to printing errors and changes in technical performance. Product sheet: ECS_STP6A_V1_2609

Technical data

			
OPERATING VOLTAGE	TEMPERATURE (operative)	TEST VOLTAGE	INSULATION RESISTANCE
60V acc. to EN 50288	STATIC 0 °C ~ 50 °C DYNAMIC -20 °C ~ 60 °C	DC 1kV / 1min.	min. 5000 MΩ/km at 500V/20°C
			
DC RESISTANCE	MUTUAL CAPACITANCE	CHARACTERISTIC IMPEDANCE	VELOCITY OF PROPAGATION
max. 9.38 Ω / 100m at 20°C	max. 5.6 nF / 100m at 1 kHz	100 Ω	nom. 78%
			
CAPACITANCE UNBALANCE	RESISTANCE UNBALANCE	BENDING RADIUS	
max. 160pF / 100m at 1 kHz	max. 2% at 20°C	≥ 4xOD without load ≥ 8xOD with load	

Transmission Performance according to ANSI/TIA 568.2-D Cat.6A(at 20°C)

Frequency (MHz)	Attenuation (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSELFEXT (dB)	Return Loss (dB)	Propagation Delay (ns)	Delay Skew (ns)
Max.	Min.	Min.	Min.	Min.	Min.	Min.	Max.	Max.
1	2.1	74.3	72.3	67.8	64.8	20.0	570.0	
4	3.8	65.3	63.3	55.8	52.8	23.0	552.0	
62.5	15.0	47.4	45.4	31.9	28.9	21.5	538.6	
100	19.1	44.3	42.3	27.8	24.8	20.1	537.6	45
250	31.1	38.3	36.3	19.8	16.8	17.3	536.3	
500	45.3	33.8	31.8	13.8	10.8	15.2	535.6	

Cable Code	Standard	Conductor	AWG	OD (mm)	Outer Jacket	Flame Retardant	Packaging
STP6A	EN/ISO	Solid	23	6.4 +/- 0.3	LSZH	IEC 60332-1 EN50399 Dca-s1,d1,a1	Drum(500m)