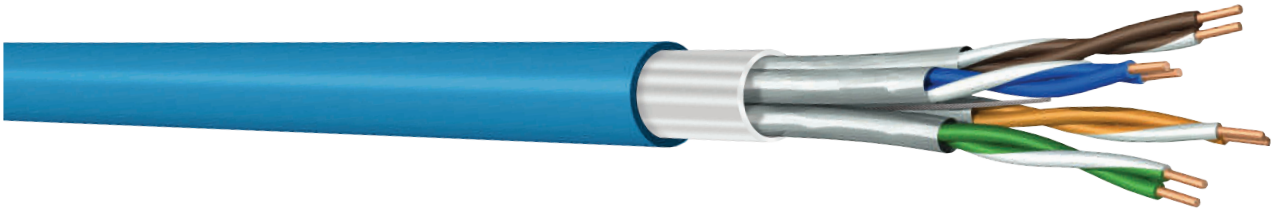


Category 6A F/FTP 23AWG 500MHz LSZH Data Cable | Dca



Category 6A F/FTP solid cable with standardized twisted pairs which is used for ethernet applications that require up to 500 MHz performance specifications.

Complaint Standards

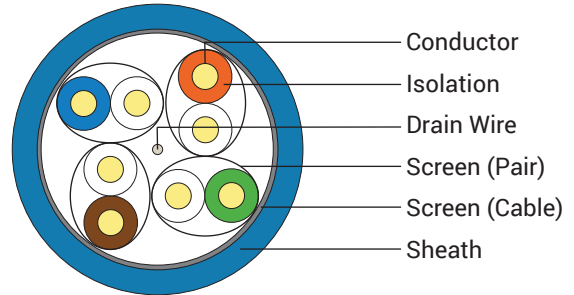
- ANSI TIA/EIA 568.2-D
- ISO/IEC 11801 2nd ed., IEC 61156-5
- EN 50173-1, EN 50288-5-1

Applications

- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
- IEEE 802.5 16 MB; ISDN; TPDDI; ATM
- Power over Ethernet (PoE) / PoE+

EU Declaration

- | | | |
|-------|---|------------|
| LVD: | Low Voltage Directive | 2014/35/EU |
| RoHS: | Restriction of Hazardous Substances Directive | 2011/65/EU |



Flame Resistance

Flame Performance	Flame Retardancy	EN 60332-1-2
	Smoke Performance	EN 61034-2
	Halogen Acidity	EN 60754-1/2
Euroclass	Dca - s2, d2, a1	

Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	7.0 mm
App. Cable Weight	51 kg/km
Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Blue RAL 5015

Mechanical Properties

Min. Bending Radius	Installation:	8 x D
	Operation:	4 x D
Temperature Range	Installation:	0°C up to + 50°C
	Operation:	-20°C up to + 60°C
Tensile Strength	110N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	75.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	42 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	78-80%	
Propagation Delay	430 ns/100m	max.
Delay Skew	25 ns/100m	max.
Test Voltage	1000 V	

Transmission Properties

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ACR-F (dB/100m)		PS-ACR-F (dB/100m)		Return Loss (dB)	
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.
1.00	2.1	1.9	75.3	95.0	72.3	92.0	73.2	93.0	70.2	90.0	68.0	100.0	65.0	97.0	20.0	26.0
4.00	3.8	3.5	66.3	95.0	63.3	92.0	62.5	91.0	59.5	88.0	56.0	100.0	53.0	97.0	23.0	27.0
10.00	5.9	5.6	60.3	95.0	57.3	92.0	54.4	89.0	51.4	86.0	48.0	92.0	45.0	89.0	25.0	30.0
16.00	7.5	6.9	57.2	95.0	54.2	92.0	49.8	88.0	46.8	85.0	43.9	88.0	40.9	85.0	25.7	30.0
31.25	10.5	9.8	52.9	95.0	49.9	92.0	42.4	85.0	39.4	82.0	38.1	82.0	35.1	79.0	23.6	30.0
62.50	15.0	14.1	48.4	95.0	45.4	92.0	33.4	81.0	30.4	78.0	32.1	76.0	29.1	73.0	21.5	30.0
100.00	19.1	17.7	45.3	95.0	42.3	92.0	26.2	77.0	23.2	74.0	28.0	72.0	25.0	69.0	20.1	30.0
250.00	31.1	29.5	39.3	85.0	36.3	82.0	8.3	55.0	5.3	52.0	20.0	64.0	17.0	61.0	17.3	24.0
400.00	40.1	38.8	36.3	80.0	33.3	77.0	-3.8	41.0	-6.8	38.0	16.0	57.0	13.0	54.0	15.9	23.0
500.00	45.3	43.5	34.8	75.0	31.8	72.0	-10.4	31.0	-13.4	28.0	14.0	55.0	11.0	52.0	15.2	22.0

Ordering Code

C6A-FFTP-SLD-BU-DCA-500M

Category 6A F/FTP Cable, Solid 23 AWG, Blue, CPR: Dca, 500 Meters