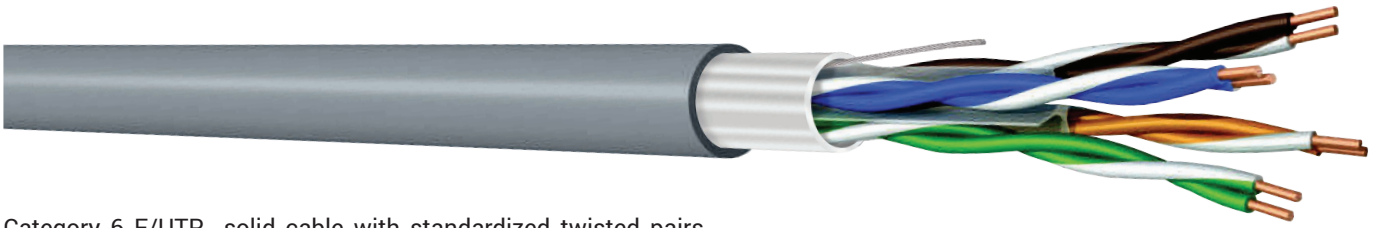


Category 6 F/UTP 23AWG 400MHz LSZH Data Cable | Dca



Category 6 F/UTP solid cable with standardized twisted pairs which is used for ethernet applications that require up to 250 MHz performance specifications.

Complaint Standards

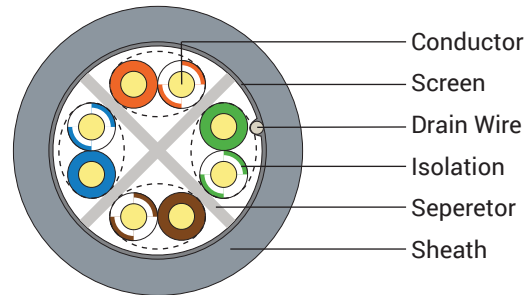
- ANSI TIA/EIA 568.2-D
- ISO/IEC 11801 2nd ed., IEC 61156-5
- EN 50173-1, EN 50288-5-1

Applications

- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T
- 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	7.2 mm
App. Cable Weight	55 kg/km
Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Grey RAL 7001

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	100N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	85.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	50 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	67-69%	
Propagation Delay	537 ns/100m	max.
Delay Skew	45 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	66.0	82.0	64.0	79.0	63.9	80.0	61.9	77.0	66.0	85.0	64.0	82.0	20.0	26.0
4.00	3.8	3.8	65.3	76.0	63.3	73.0	61.4	72.0	59.4	69.0	58.0	77.0	55.0	74.0	23.0	31.0
10.00	6.0	5.9	59.3	70.0	57.3	67.0	53.3	64.0	51.3	61.0	50.0	68.0	47.0	64.0	25.0	32.0
16.00	7.6	7.4	56.2	65.0	54.2	62.0	48.6	58.0	46.6	55.0	45.9	63.0	42.9	60.0	25.0	34.0
31.25	10.7	10.5	51.9	60.0	49.9	57.0	41.1	49.0	39.1	46.0	40.1	51.0	37.1	48.0	23.6	36.0
62.50	15.5	15.1	47.4	58.0	45.4	55.0	31.9	43.0	29.9	40.0	34.1	44.0	31.1	41.0	21.5	32.0
100.00	19.9	19.0	44.3	52.0	42.3	49.0	24.4	33.0	22.4	30.0	30.0	35.0	27.0	32.0	20.1	32.0
250.00	33.0	31.0	38.3	48.0	36.3	45.0	5.3	17.0	3.3	14.0	22.0	19.0	19.0	16.0	17.3	30.0
300.00	-	36.0	-	43.0	-	40.0	-	13.0	-	10.0	-	14.0	-	11.0	-	28.0
400.00	-	41.6	-	40.0	-	37.0	-	8.0	-	5.0	-	8.0	-	5.0	-	26.0

Ordering Code

C06-FUTP-SLD-GY-DCA-500M

Category 6 F/UTP Cable, Solid 23 AWG, Grey, CPR: Dca, 500 Meters