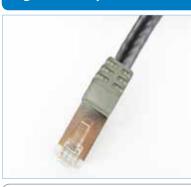
CAT 6 CABLE



High reliability Cat 6 Ethernet cable & cordsets



General construction

A 4 pairs, 26 AWG, 100 Ohm SFTP round patch cable, designed to the ISO / IEC 11801 Category 6 requirements. The cable contains 4 twisted pairs individually shielded, cabled, double shielded with kevlar reinforcement strands, jacketed in black UV resistant Polyurethane HFFR. Designed for fixed or portable applications in harsh environments.

HFFR: Halogen Free Flame Retardant

Jacket compound specification:

- Halogen free flame retardant polyether-based polyurethane

Temperature

- Excellent hydrolysis resistance
- High microbial resistance

- Glossy finish
- UV resistant
- High flexibility

Datas for the cable

Applications

- Robotics
- CNC machines
- Motion control
- Battlefield communication
- Railways

Frequency

Industrial process control

N.E.X.T.

(Near-End Crosstalk Loss)

Electrical characteristics (at 20°C - 68°F)

DC Resistance	290 Ohm/Km
Impedance (100 MHz)	100 +/- 5 Ohm

Attenuation

(dB/100m)

	(0.2) . 0 0)	(110011 21101 01000101111 2000)
1 MHz	3.1 dB	75.3 dB min.
4 MHz	5.8 dB	66.3 dB min.
8 MHz	8.0 dB	61.8 dB min.
10 MHz	9.0 dB	60.3 dB min.
16 MHz	11.4 dB	57.2 dB min.
20 MHz	12.8 dB	55.8 dB min.
25 MHz	14.1 dB	54.3 dB min.
31.25 MHz	16.1 dB	52.8 dB min.
62.5 MHz	23.2 dB	48.4 dB min.
100 MHz	29.9 dB	45.3 dB min.
200 MHz	43.7 dB	40.8 dB min.
250 MHz	49.7 dB	39.3 dB min.
Capacitance (1 kHz)		50nF/km nom.
Capacitance unbalance		1600 pF/km max.
Insulation resistance		5 GOhm/km
Voltage rating (peak)		230 V
Dielectric strength		VAC/1 min - 700 V/Min
Propagation delay		4.6 ns/m
Skew		45 ns/100m
Resistance unbalan	ce	2%
Return loss (250 MHz)		15.6dB
Velocity of propagation		72% nom.

Reel of cable (without RJ45 plug on ends)		
Length (m / ft)	Part number	
100 m / ~328 ft	191-031179-00	
300 m / ~984 ft	191-031179-01	

alone only **Physical characteristics** (without RJ45 plug) **Conductors** 26 AWG (0,14 mm²) tinned copper Insulation Polyethylene Nom. Dia. 0,039" (1mm) Assembly Pairs cabled with Kevlar strength members and separation tape wrapped **Shields** Inner: aluminium mylar 100% coverage Outer: tinned copper braid 80% coverage Jacket Black, special PUR compound Weight 36.9 lbs / mft (55 kg/km) Outside diam. 0.272" (6.9 mm) nom. Min bend radius 72mm (10x O. D.) (During installation) MIn bend radius 36mm (5 x O.D.) (During operation) Min flexes to Passes IEC 61156-6 requirements failure

-40°C (-40°F) / + 85°C (185°F)

Cordsets with a RJ45 plug overmolded on each end		
Length (m/ft)	Part number	
0,75 m / <i>2,46 ft</i>	RJF SFTP 6 0075	
1,00 m / <i>3,28 ft</i>	RJF SFTP 6 0100	
1,50 m / <i>4,92 ft</i>	RJF SFTP 6 0150	
2,00 m / <i>6,56 ft</i>	RJF SFTP 6 0200	
2,50 m / <i>8,20 ft</i>	RJF SFTP 6 0250	
3,00 m / <i>9,84 ft</i>	RJF SFTP 6 0300	
3,50 m / <i>11,48 ft</i>	RJF SFTP 6 0350	
4,00 m / 13,12 ft	RJF SFTP 6 0400	
4,50 m / <i>14,76 ft</i>	RJF SFTP 6 0450	
5,00 m / <i>16,40 ft</i>	RJF SFTP 6 0500	
6,00 m / 19,68 ft	RJF SFTP 6 0600	
7,00 m / <i>22,96ft</i>	RJF SFTP 6 0700	
8,00 m / <i>26,24 ft</i>	RJF SFTP 6 0800	
9,00 m / <i>29,52 ft</i>	RJF SFTP 6 0900	
10,00 m / <i>32,80 ft</i>	RJF SFTP 6 1000	
15,00 m / <i>49,20 ft</i>	RJF SFTP 6 1500	
20,00 m / <i>65,60 ft</i>	RJF SFTP 6 2000	
25,00 m / 82,00 ft	RJF SFTP 6 2500	
30,00 m / <i>98,40 ft</i>	RJF SFTP 6 3000	
35,00 m / <i>114,80 ft</i>	RJF SFTP 6 3500	
40,00 m / 131,20 ft	RJF SFTP 6 4000	
45,00 m / 147,60 ft	RJF SFTP 6 4500	
50,00 m / 164,00 ft	RJF SFTP 6 5000	
60,00 m / 196,80 ft	RJF SFTP 6 6000	