

High Reliability Ethernet Cables



■ **GENERAL** : 26 AWG stranded, bare copper wire with 200C, 300 Volt HFFR insulation, double-shielded, with Kevlar 600# strength member and extra rugged black polyurethane jacket.

■ **TESTING** : Meets specifications for TIA CAT5 SFTP 100 Ohm cable. Passes all CAT5 tests in lengths up to 30 meters

■ **Reel of 100 m (328 feet) of cable** : 190-036161-00 (without RJ45 plug en ends)

■ **Cordset with RJ45 plug on each end**

2.5 feet / 0,76 m	RJF SFTP 0076
5 feet / 1,52 m	RJF SFTP 0152
10 feet / 3,05 m	RJF SFTP 0305
15 feet / 4,57 m	RJF SFTP 0457
25 feet / 7,62 m	RJF SFTP 0762
50 feet / 15,25 m	RJF SFTP 1525
75 feet / 22,87 m	RJF SFTP 2287
100 feet / 30,50 m	RJF SFTP 3050

PHYSICAL CHARACTERISTICS		ELECTRICAL CHARACTERISTICS	
CONDUCTORS	26 AWG Bare copper stranded 7x0.16 mm	DC Resistance	15 Ohms/100m @ 20° C
INSULATION	Color coded, Linear Low Density Polyethylene (LLDPE) Nom. dia. 0.90 mm	Impedance	100 +/-15 Ohms 1-100 MHz
ASSEMBLY	Pairs cabled with Kevlar strength member and tape wrapped.	Attenuation	
SHIELD	Inner: Aluminum/Mylar, 100% coverage. Outer: Tinned copper braid, 80% coverage.	772 KHz	2.70 db/100m nom.
JACKET	Black HFFR Nom. wall: 1.5 mm Elongation: 550% Tensile Strength: 5,000 psi.	1 MHz	3.15 db/100m nom.
PHYSICAL	Outside diameter: 7.5 mm nom. Weight: 55Kg per Km.	4 MHz	6.45 db/100m nom.
TEMPERATURE	Plus 105° C, minus 70° C.	10 MHz	9.90 db/100m nom.
		16 MHz	12.3 db/100m nom.
		20 MHz	13.8 db/100m nom.
		31.25 MHz	17.7 db/100m nom.
		62.5 MHz	25.6 db/100m nom.
		100 MHz	33 db/100m nom.
		N.E.X.T. (Near-End Crosstalk Loss)	
		772 KHz	64 db min.
		1 MHz	62 db min.
		4 MHz	53 db min.
		10 MHz	47 db min.
		16 MHz	44 db min.
		20 MHz	42 db min.
		31.25 MHz	40 db min.
		62.5 MHz	35 db min.
		100 MHz	32 db min.
		Capacitance	4.6 nF / 100m
		Capacitance Unbalance	340 pF / 100m max. @1KHz (wire to ground)
		Insulation Resistance	150 M Ohm min.
		Voltage Rating	230 VMS
		Dielectric Strength	700 Vrms
		Propagation Delay (100MHz)	5.2 ns/m max. @ 100 MHz
		Delay Skew	20 ns/100m max. @ 1-100 MHz
		Resistance Unbalance	3% max. @ 20° C
		Structural Return Loss (100 MHz)	23db/100m min. @ 1-20 MHz

Applications

- Factory Automation
- Data Acquisition and Transmission in Harsh Environment
- C4I requirements
- Tele-maintenance

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