

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

## Applications

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

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