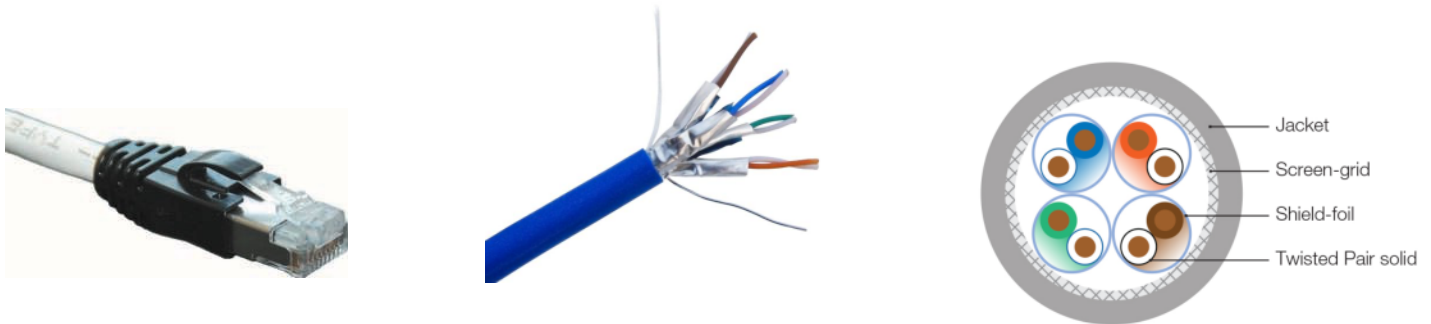


Cat 6 Individually Shielded Modular Assemblies

Priority Electronics Ltd manufactures a complete line of voice and data modular cable assemblies. Priority utilizes the highest quality connectors and all assemblies are tested for continuity before shipping. All shielded assemblies come with an anti-snag boot integral to the connector. All Cat 6 assemblies are offered either channel tested or component compliant tested. Category 6 assemblies are available in any desired length.



A word about Cat 6 Patchcords:

Priority offers two levels of Cat 6 patchcords:

- 1.) Channel Tested
- 2.) Component Compliant Tested

Channel tested patchcords are combined with a marginal (but passing) permanent link (horizontal cabling and cat 6 jacks). Channel testing is then performed and the patchcords passed or failed depending upon final result. This test result insures Cat 6 performance on most manufacturers Cat 6 permanent links.

Component Compliant tested patchcords are tested utilizing our Fluke DSP analyzer and patchcord adapters. This system fully meets the requirements for component testing as laid out in the TIA/EIA-568-B.2-1 Annex J and insures the best possible performance over the widest range of different manufacturers permanent links.

Product Description

Category 6 SFTP performance up to 500 MHz and independently verified and monitored by UL, when compared to typical values; meets or surpasses the specifications in every category. The overall metal foil screen with drain wire along with a construction comprised of 8 x 23-gauge annealed bare copper cores.

Applications

Structured cabling for horizontal and building backbone cable.
Transmission of digital and analogue for data, video and audio applications.
Overall metal shielded providing good protection from EMI noise.

Physical & Electrical Characteristics	
Frequency Range:	1 - 250 MHz
Impedance:	100 Ω
Transfer Impedance:	Grade 1
Coupling Attenuation:	Type I
Max. DC Resistance :	85 Ω /km@20°C
Max. Resistance Unbalance:	2%
Capacitance Unbalance:	1.2 pF/m max.
Velocity of Propagation:	78 % nom.
Dielectric Strength:	700 V/minute
Dielectric Strength to Shield:	700 V/minute
Min. Insulation Resistance :	5 GΩ •km
Tensile Strength - Short Term:	75 N max.
Min. Bend Radius:	60 mm
Max. Operating Temperature:	+ 85 °C
Min. Operating Temperature:	- 40 °C
UV resistance:	Yes

Usage & Environmental Condition		
Temperature Range	Storage & shipping	-40°C to 85°C
	Installation	0°C to 60°C
	Operation	-40°C to 85°C
Minimum Bending Radius	≥ 4 times of overall diameter	
Maximum Pulling Tension	≤ 110 N	
Performance Compliance		
IEC 61156-6	ISO/IEC 11801	RoHS-2 2011/65/EU
IEC 60332-1	IEC 60332-3-22	IEC 60332-3
IEC 60754-1/2	IEC 61034-1/2	UL 1581 VW-1
Features		
High performance rate of transmission		
High quality of safety property		
Meets/exceeds ANSI/TIA-568-C.2 specification		
Meets ISO/IEC 11801 (Edition 2.2)		
Meets IEC 61156-5 (Edition 2.0)		
Quick Count marking system in feet		
Lower cross talk		

Electrical Performance Comparison (at 20°C)								
Frequency (MHz)	INSERTION LOSS		NEXT		PS.NEXT		ACR	
	Typical	Hyperline	Typical	Hyperline	Typical	Hyperline	Typical	Hyperline
	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m
1	3.0	3.1	93.0	75.3	90.0	72.3	93.0	68.0
4	5.6	5.8	88.0	66.3	85.0	63.3	93.0	56.0
10	8.7	9.0	88.0	60.4	85.0	57.3	83.0	48.0
20	12.4	12.8	88.0	55.8	85.0	52.8	83.0	42.0
30	15.3	15.8	88.0	53.1	85.0	50.1	73.0	38.5
100	29.0	29.9	83.0	45.3	80.0	42.3	66.0	28.0
150	36.2	37.4	83.0	42.7	80.0	39.7	63.0	24.5
200	42.5	43.8	83.0	40.8	80.0	37.8	61.0	22.0
250	48.2	49.7	80.0	39.3	77.0	36.3	58.0	20.0
300	53.5	N/A	80.0	N/A	77.0	N/A	55.0	N/A
400	63.1	N/A	75.0	N/A	72.0	N/A	52.0	N/A
500	71.9	N/A	75.0	N/A	72.0	N/A	50.0	N/A

Frequency (MHz)	PS.ACRF		Return Loss	
	Typical	Hyperline	Typical	Hyperline
	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m
1	90.0	65.0	22.0	20.0
4	90.0	53.0	25.0	23.0
10	80.0	45.0	28.0	25.0
20	80.0	39.0	28.0	25.0
30	70.0	35.5	27.0	23.8
100	63.0	25.0	24.0	21.1
150	60.0	21.5	22.0	18.8
200	58.0	19.0	21.0	18.0
250	55.0	17.0	20.0	17.3
300	52.0	N/A	19.0	17.3
400	49.0	N/A	19.0	17.3
500	47.0	N/A	19.0	17.3

Design & Materials	
Conductor Material	Annealed bare copper
Conductor Size:	AWG 23
Conductor Construction	Stranded
Insulation Material	Cellular PO
Insulation O.D	1.4 mm nom.
Conductor Unit Identification	Solid Color
Color Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Design	Helically applied Aluminum foil, 100% coverage
Conductor Unit Lay-up	Pairs
Overall Shield Design	Braid
Overall Braid Material	Annealed Tinned Copper
Braid Coverage	55% Nom
Overall Drain-wire Material	Annealed Tinned Copper
Total Number of Conductors	8
Outer Jacket Thickness	0.8 mm Nom