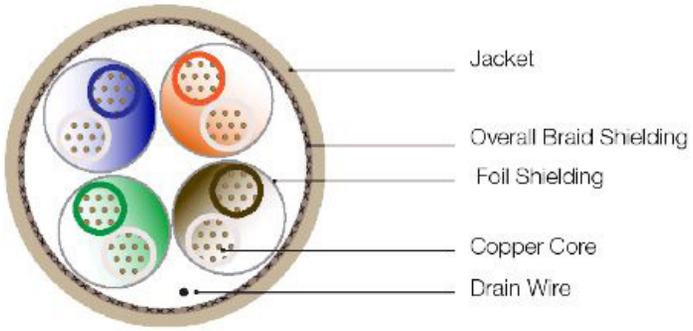
Part no. SSTP4-C6-PATCH-INDOOR-XX-305

Category 6 Shielded S/STP, 23AWG Indoor Solid Bare Copper Cable



PRODUCT DESCRIPTION

Hyperline brings Category 6 SSTP performance to a new level. With guaranteed performance up to 500 MHz and inde-pendently 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 Tempera-ture:	+ 85 °C
Min. Operating Temperature:	- 40 °C
UV resistance:	Yes

USAGE & ENVIRONMENTAL CONDITION

Temperature range	Storage & ship-ping	-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 (Editional2.2)
- Meets IEC 61156-5 (Edition2.0)
- Quick Count marking system in feet
- Lower cross talk

Available in ten different jacket colors

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:	23 AWG
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.

CONSTRUCTION

Rip cord	Material	Polyester multi-yarn
Nominal Velocity of Propagation	(NVP) 69%	
NRTL Program	c(UL)us listed ETL Verified	
Marking	Per Hyperline Standard	

ORDERING

Part Number	Product Description
SSTP4-C6-PATCH-INDOOR-WH-305	Category 6, S/FTP, 23 AWG, White 305 Meter/1000 FT Pull Box
SSTP4-C6-PATCH-INDOOR-BL-305	Category 6, S/FTP, 23 AWG, Blue 305 Meter/1000 FT Pull Box
SSTP4-C6-PATCH-INDOOR-YL-305	Category 6, S/FTP, 23 AWG, Yellow 305 Meter/1000 FT Pull Box
SSTP4-C6-PATCH-INDOOR-VT-305	Category 6, S/FTP, 23 AWG, Violet 305 Meter/1000 FT Pull Box
SSTP4-C6-PATCH-INDOOR-OR-305	Category 6, S/FTP, 23 AWG, Orange 305 Meter/1000 FT Pull Box
SSTP4-C6-PATCH-INDOOR-GN-305	Category 6, S/FTP, 23 AWG, Green 305 Meter/1000 FT Pull Box
SSTP4-C6-PATCH-INDOOR-GY-305	Category 6, S/FTP, 23 AWG, Grey 305 Meter/1000 FT Pull Box
SSTP4-C6-PATCH-INDOOR-PK-305	Category 6, S/FTP, 23 AWG, Pink 305 Meter/1000 FT Pull Box
SSTP4-C6-PATCH-INDOOR-RD-305	Category 6, S/FTP, 23 AWG, Red 305 Meter/1000 FT Pull Box
SSTP4-C6-PATCH-INDOOR-BK-305	Category 6, S/FTP, 23 AWG, Black 305 Meter/1000 FT Pull Box