



PRODUCT DESCRIPTION

Hyperline brings Category 7 S/FTP performance to a new level. With guaranteed performance up to 600 MHz and independently verified and monitored by UL, C7 cable demonstrates superior capability for 10 Gigabit Ethernet (10GbE) and all other bandwidth intensive and legacy application when compared to TIA guidelines; meets or surpasses the specifications in every category. 4 individually foil-shielded twisted pairs (aluminum face upward), cabled together, overall braid-shielded and jacketed with FRPVC compound. It conforms to IEC 61156-5 Cat. 7 tested up to 1000 MHz, Cat. 6 A Cat. 6, and Cat. 5e requirements.

USAGE & ENVIRONMENTAL CONDITION

Temperature range	Operation	-35°C to 65°C
Minimum bending radius	65 mm	
Maximum pulling tension	≤ 130 N	

APPLICATIONS

- High data rates
- High bandwidth digital applications with low BER (Bit Error Rate)
- Indoor use
- Fixed installations

PHYSICAL & ELECTRICAL CHARACTERISTICS

Frequency Range	1 - 1000 MHz
Impedance	100 Ω
Coupling Attenuation	Type I
DC Resistance	73 Ω/km nom.
Max. Resistance Unbalance	2%
Capacitance Unbalance:	1.2 pF/m max.
Dielectric Strength	700 V/minute
Dielectric Strength to Shield	700 V/minute
Max. Operating Temperature	+65 °C
Min. Operating Temperature:	-35 °C

PERFORMANCE COMPLIANCE

- IEC 61156-5 Ed. 2
- IEC 61156,
- ISO/IEC 11801
- RoHS-2 2011/65/EU
- IEC 60332-1
- UL 1581 VW-1

FEATURES

- High performance rate of transmission
- High quality of safety property
- Sweep frequency up to 1000 MHz (Enhanced) verified to 600 MHz
- Meets/exceeds ANSI/TIA-568-C.2 specification
- Meets ISO/IEC 11801 (Edition2.2)
- Meets IEC 61156-5 (Edition2.0)
- Flammability Rating –IEC 60332-1, UL 1581 VW-1 (CMR)
- Quick Count marking system in feet
- Lower cross talk
- Available in three different jacket colors: Blue, White & Red



ELECTRICAL PERFORMANCE COMPARISON (At 20 °C)

Frequency (MHz)	INSERTION LOSS		NEXT		PS.NEXT		NEXT LOSS	
	Typical Value	Hyperline	Typical Value	Hyperline	Typical Value	Hyperline	Typical Value	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	2.0	2.0	75.0	105.0	N/A	68.0	78.0	108.0
4	3.7	3.6	75.0	98.0	N/A	68.0	78.0	101.0
10	5.8	5.6	75.0	95.0	N/A	68.0	78.0	98.0
20	8.3	7.9	75.0	90.0	N/A	68.0	78.0	93.0
30	10.2	9.7	75.0	85.0	N/A	68.0	78.0	88.0
100	19.0	18.0	69.4	80.0	N/A	68.0	72.4	83.0
150	23.6	22.4	66.7	78.0	N/A	65.0	69.7	81.0
200	27.5	26.0	65.0	78.0	N/A	65.0	68.0	81.0
250	31.0	29.4	63.4	75.0	N/A	62.0	66.4	78.0
300	34.2	32.5	62.2	75.0	N/A	62.0	65.2	78.0
400	40.0	38.0	60.4	70.0	N/A	62.0	63.4	73.0
500	45.2	43.0	58.9	70.0	N/A	62.0	61.9	73.0
600	50.1	47.6	57.7	70.0	N/A	62.0	60.7	73.0

Frequency (MHz)	ACRF		PS.ACRF		RETURN LOSS	
	Typical Value	Hyperline	Typical Value	Hyperline	Typical Value	Hyperline
	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m
1	78.0	98.0	75.0	95.0	20.0	22.0
4	78.0	93.0	75.0	90.0	23.0	25.0
10	74.0	89.0	71.0	86.0	25.0	28.0
20	68.0	83.0	65.0	80.0	25.0	28.0
30	64.5	79.0	61.5	76.0	23.8	27.0
100	54.0	69.0	51.0	66.0	21.1	24.0
150	50.5	66.0	47.5	63.0	18.8	22.0
200	48.0	63.0	45.0	60.0	18.0	21.0
250	46.0	61.0	43.0	58.0	17.3	20.0
300	44.5	55.0	41.5	52.0	17.3	19.0
400	41.9	52.0	38.9	49.0	17.3	19.0
500	40.0	50.0	37.0	47.0	17.3	19.0
600	38.4	48.0	35.4	45.0	17.3	19.0

Supplied cables meet the minimum Cat. 7 transmission requirements as per IEC 61156-5 Ed. 2



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MATERIALS & CONSTRUCTION

Conductor Material	Annealed Bare Copper
Conductor Size:	23 AWG
Conductor Construction	Solid
Insulation Material	Cellular PO
Insulation O.D.	1.35 mm nom.
Conductor unit identification	Solid/stripe
Color Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Design	100% Coverage
Conductor unit lay-up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Tinned-copper braid
Overall Braid Shield	Yes
Overall Braid Material	Annealed Tinned Copper
Braid Coverage	35%nom.
Overall Drain-wire Material	Annealed Tinned Copper
Total number of conductors	8
Outer Jacket Color	Per Hyperline Standard

MATERIALS & CONSTRUCTION

Rip cord	Material	Polyester multi-yarn
Nominal Velocity of Propagation	(NVP) 73%	
NRTL Program	c(UL)us listed CMR	
Marking	Hyperline SSTP4-C7-SOLID-INDOOR-FRPVC-XX-305	

ORDERING

Part Number	Product Description
SSTP4-C7-SOLID-INDOOR-FRPVC-WH-305	Category 7Riser, UTP, 23 AWG, White 305 Meter/1000 FT Reel
SSTP4-C7-SOLID-INDOOR-FRPVC-BL-305	Category 7Riser, UTP, 23 AWG, Blue 305 Meter/1000 FT Reel
SSTP4-C7-SOLID-INDOOR-FRPVC-RD-305	Category 7 Riser, UTP, 23 AWG, Red 305 Meter/1000 FT Reel



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