



PRODUCT DESCRIPTION

Hyperline brings Category 7 SSTP 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 Typical values; meets or surpasses the specifications in every category. Four individually foil-shielded twisted pairs (aluminum face upward), cabled together, overall braid-shielded and jacketed with LSZH 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	-40°C to 70°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

PERFORMANCE COMPLIANCE

- UL 1581 VW-1
- IEC 60332-1 fire safety standard

TECHNICAL CHARACTERISTICS

Frequency Range	1 - 1000 MHz
Insulated conductor diameter	1.34 mm (0.05")
Outer cable diameter	8,0 mm (0.31")
Drain wire diameter	73 Ω/km nom.
Max. Resistance Unbalance	24 AWG
Maximum bend radius	120 mm (4.72")
Pulling strength	140 N max
Dielectric Strength to Shield	700 V/minute
Max. Operating Temperature	+70 °C
Min. Operating Temperature:	-40 °C

FEATURES

- High performance rate of transmission
- High quality of safety property
- Sweep frequency up to 1000 MHz (Enhanced) verified to 600 MHz
- Meets IEC 61156-5
- IEC 61156-5 category 5e, 6, 7 requirements
- ISO/IEC
- 11801 category 7 requirements
- Fire protection – CM
- Quick Count marking system in feet
- Lower cross talk
- Available in two different jacket colors: Grey & Red



ELECTRICAL PERFORMANCE COMPARISON (At 20 °C)

Frequency (MHz)	INSERTION LOSS		NEXT		PS.NEXT	
	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	2.0	2.0	108.0	102.4	105	99.4
4	3.6	3.7	101.0	93.4	98.0	90.4
10	5.6	5.8	98.0	87.4	95.0	84.4
20	7.9	8.3	93.0	83.0	90.0	80.0
30	9.7	10.2	88.0	80.2	85.0	77.2
100	18.0	19.0	83.0	72.4	80.0	69.4
150	22.4	23.6	81.0	69.7	78.0	66.7
200	26.0	27.5	81.0	68.0	78.0	65.0
250	29.4	31.0	78.0	66.4	75.0	63.4
300	32.5	34.2	78.0	65.2	75.0	62.2
400	38.0	40.0	73.0	63.4	70.0	60.4
500	43.0	45.2	73.0	61.9	70.0	58.9
600	47.6	50.1	73.0	60.7	70.0	57.7

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



MATERIALS & CONSTRUCTION

Cable Jacket	FR-LSZH
Conductive material	wire made of soft annealed electrolytic copper
Conductor resistance at 20°C (68°F)	80.0 Ohm/km (128.75 Ohm/mile)
DC Resistance Unbalance	2% max
Resistance at frequency 1-600 MHz	100 ± 15 Ohm
Transfer impedance at frequency 1-10 MHz	5 MOhm/m (1.52 MOhm/ft) max
Capacitive unbalance at frequency 1 kHz	1.2 pF/m (0.36 pF/ft) max
Maximum voltage	60 V RMS
Dielectric rigidity	700 V/min
Insulation resistance at 20°C (68°F)	152 MOhm/km (244.62 MOhm/mile) minimum
Propagation velocity	79-80%
Max propagation delay at frequency 1 MHz	5.3 ns/m (1.61 ns/ft)
Max propagation delay at frequency 10 MHz	5.0 ns/m (1.52 ns/ft)
Max propagation delay at frequency 100-600 MHz	5.0 ns/m (1.52 ns/ft)
Max derivation of propagation delay at frequency 1-600 MHz	15 ns/100 m (4.57 ns/100 ft)
Jacket marking	Per Hyperline Standard

MATERIALS & CONSTRUCTION

Rip cord	Material	Polyester multi-yarn
NRTL Program	c(UL)us	
Marking	Hyperline SSTP4-C7-SOLID-INDOOR-LSZH-XX-305	

ORDERING

Part Number	Product Description
SSTP4-C7-SOLID-INDOOR-LSZH-GY-305	Category 7 SSTP, 23 AWG, Grey 305 Meter/1000 FT Reel
SSTP4-C7-SOLID-INDOOR-LSZH-RD-305	Category 7 SSTP, 23 AWG, Red 305 Meter/1000 FT Reel



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