



PRODUCT DESCRIPTION

Category 5e Outdoor is ideal for voice, data, video and security communication mediums for all your network installation requirements. Manufactured to the highest quality standards and approved by 3rd party organizations such as ETL. Hyperline Cable, when compared to TIA guidelines; meets or surpasses the specifications in every category. The cable construction is comprised of 8 x 24-gauge solid bare copper cores with an overall metal foil screen with drain wire. Insulated with high density polyethylene insulation and organized into four color coded twisted pair sets of conductors this cable is used for outdoor installations.

APPLICATIONS

- 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.
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

PHYSICAL & ELECTRICAL CHARACTERISTICS

at 20 °C	
Conductor resistance	9.38 Ohm/100 m (2.86 Ohm/100 ft)
Spark test	2.5 KV
Pair-to-Ground Capacitance Unbalance	330 pF/100 m (101 pF/100 ft)
Impedance 0.772-100 MHz	85-115 Ohm
Mutual Capacitance	5.6 nF/m (1.7 nF/ft)

USAGE & ENVIRONMENTAL CONDITION

Temperature range	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-40°C to 50°C
Minimum bending radius	≥ 4 times of overall diameter	
Maximum pulling tension	≤ 110 N	

PERFORMANCE COMPLIANCE

- UL 444
- UL 1581

FEATURES

- High performance of transmission
- High quality of safety property
- Sunlight resistant
- For outdoor use
- Frequency up to 100 MHz
- Meets/exceeds ANSI/TIA-568-C.2 specification
- Meets ISO/IEC 11801 (Edition2.2)
- Meets IEC 61156-5 (Edition2.0)
- Flame Test –UL 1518 (CMX)
- Quick Count marking system in feet



ELECTRICAL PERFORMANCE COMPARISON (At 20 °C)

Frequency (MHz)	INSERTION LOSS		NEXT		PS.NEXT		ACRF	
	TIA-568-C.2	Hyperline	TIA-568-C.2	Hyperline	TIA-568-C.2	Hyperline	TIA-568-C.2	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
1.0	2.0	2.0	65.3	65.3	62.3	62.3	63.8	63.8
4.0	4.1	4.0	56.3	56.3	53.3	53.3	51.7	51.7
8.0	5.8	5.8	51.8	51.8	48.8	48.8	45.7	45.7
10.0	6.5	6.5	50.3	50.3	47.3	47.3	43.8	43.8
16.0	8.2	8.2	47.3	47.3	44.3	44.3	39.7	39.7
20.0	9.3	9.3	45.8	45.8	42.8	42.8	37.7	37.7
25.0	10.4	10.4	44.3	44.3	41.3	41.3	35.8	35.8
31.25	11.7	11.7	42.9	42.9	39.9	39.9	33.9	33.9
62.5	17.0	17.0	38.4	38.4	35.4	35.4	27.8	27.8
100.0	22.0	22.0	35.3	35.3	32.3	32.3	23.8	23.8

Frequency (MHz)	PS.ACR		RETURN LOSS	
	TIA-568-C.2	Hyperline	TIA-568-C.2	Hyperline
	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m
1.0	60.8	60.8	20.0	20.0
4.0	48.7	48.7	23.0	23.0
8.0	42.7	42.7	24.5	24.5
10.0	40.8	40.8	25.0	25.0
16.0	36.7	36.7	25.0	25.0
20.0	34.7	34.7	25.0	25.0
25.0	32.8	32.8	24.3	24.3
31.25	30.9	30.9	23.6	23.6
62.5	24.8	24.8	21.5	21.5
100.0	20.8	20.8	20.1	20.1



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MATERIALS & CONSTRUCTION

Conductor	Material	24AWG solid bare copper
Insulated conductor diameter		0.035" ± 0.001" (0.9 ± 0.02 mm)
Rip cord		Breaking strength of 22 lbs (98 N)
Twisted	Description	Left hand direction
Filler	Material	Polyolefin (PO)
Assembly	Description	Left hand direction
Jacket	Material	Polyethylene (PE)
	Diameter	0.28" ± 0.008" (7 ± 0.2 mm)
	Thickness	0.65 mm (0.025")
	Color	Per Hyperline standard
Shield	Material	An aluminum tape shield is helically applied over the cable core with a minimum overlap of 25% or 0.19" (5 mm), thickness – 0.001" (0.025 mm), width – 0.78" (20 mm)
Drain wire	Material	24AWG solid tinned copper
Nominal Velocity of Propagation	(NVP) 69%	
NRTL Program	CMX ETL Verified	
Marking	Hyperline FTP4-C5E-SOLID-OUTDOOR-40	

ORDERING

Part Number	Product Description
FTP4-C5E-SOLID-OUTDOOR-40	Category 5e Outdoor, F/UTP, 24 AWG, Black 305 Meter/1000 FT Reel



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