



PRODUCT DESCRIPTION

Category 5e Patch (Stranded cable) 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 UL and 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, which are then insulated with high density polyethylene insulation and organized into four color coded twisted pair sets of conductors.

USAGE & ENVIRONMENTAL CONDITION

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

APPLICATIONS

- Transmission of digital and analogue for data, video and audio applications.
- Horizontal wiring in LAN
- IEEE 802.3u 100BASE-T and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

PERFORMANCE COMPLIANCE

- UL 444 UL 1581 fire safety standard
- Meets ANSI/EIA/TIA 568-B.2 requirements

PHYSICAL & ELECTRICAL CHARACTERISTICS

At 20 °C	
Temperature & voltage rating	75°C / 300V
Spark test	2.5 KV DC
AC leakage current through overall jacket	≤ 10mA (1.5KV AC)
Cable cold bend	-20°C for 4 hr
Conductor DC resistance	≤ 9.38 Ω/100m
Resistance unbalance	≤ 5%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ•m
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 330 pF/100m

FEATURES

- High performance of transmission.
- High quality of safety property.
- Meets/exceeds ANSI/TIA-568-C.2 (2009)
- ISO/IEC 11801 (Edition 2.2)
- IEC 61156-5 (Edition 2.0)
- Fire protection – IEC60332-1 (CM)
- Quick Count marking system in feet

Available in ten different jacket colors



ELECTRICAL PERFORMANCE COMPARISON (At 20 °C)

Frequency (MHz)	INSERTION LOSS		NEXT		PS.NEXT		ACR	
	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	2.4	2.4	65.3	65.3	62.3	62.3	62.3	62.3
4.0	4.8	4.8	56.3	56.3	53.3	53.3	53.3	53.3
8.0	6.9	6.9	51.8	51.8	48.8	48.8	48.8	48.8
10.0	7.7	7.7	50.3	50.3	47.3	47.3	47.3	47.3
16.0	9.9	9.9	47.3	47.3	44.3	44.3	44.3	44.3
20.0	11.1	11.1	45.8	45.8	42.8	42.8	42.8	42.8
25.0	12.5	12.5	44.3	44.3	41.3	41.3	41.3	41.3
31.25	14.1	14.1	42.9	42.9	39.9	39.9	39.9	39.9
62.5	20.4	20.4	38.4	38.4	35.4	35.4	35.4	35.4
100.0	26.4	26.4	35.3	35.3	32.3	32.3	32.3	32.3

Frequency (MHz)	PS.ACR		ACRF		RETURN LOSS	
	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
1.0	63.8	63.8	60.8	60.8	20.0	20.0
4.0	51.7	51.7	48.7	48.7	23.0	23.0
8.0	45.7	45.7	42.7	42.7	24.5	24.5
10.0	43.8	43.8	40.8	40.8	25.0	25.0
16.0	39.7	39.7	36.7	36.7	25.0	25.0
20.0	37.7	37.7	34.7	34.7	25.0	25.0
25.0	35.8	35.8	32.8	32.8	24.3	24.3
31.25	33.9	33.9	30.9	30.9	23.6	23.6
62.5	27.8	27.8	24.8	24.8	21.5	21.5
100.0	23.8	23.8	20.8	20.8	20.1	20.1



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MATERIALS & CONSTRUCTION

Conductor	Diameter	7 x 0.008" (0.2 mm) (24 AWG)	
	Color code & diameter	Blue & white/blue stripe	0.90 ± 0.02 mm
		Orange & white/orange stripe	0.89 ± 0.02 mm
		Green & white/green stripe	0.90 ± 0.02 mm
		Brown & white/brown stripe	0.89 ± 0.02 mm
Twisted	Description	Left hand direction	
Filler	Material	Polyolefin (PO)	
Assembly	Description	Left hand direction	
Cable Jacket	Material	PVC	
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
UTP4-C5E-PATCH-WH-305	Category 5E Patch, UTP, 24 AWG, White 305 Meter/1000 FT Pull Box
UTP4-C5E-PATCH-BL-305	Category 5E Patch, UTP, 24 AWG, Blue 305 Meter/1000 FT Pull Box
UTP4-C5E-PATCH-GY-305	Category 5E Patch, UTP, 24 AWG, Grey 305 Meter/1000 FT Pull Box
UTP4-C5E-PATCH-OR-305	Category 5E Patch, UTP, 24 AWG, Orange 305 Meter/1000 FT Pull Box
UTP4-C5E-PATCH-GN-305	Category 5E Patch, UTP, 24 AWG, Green 305 Meter/1000 FT Pull Box
UTP4-C5E-PATCH-VT-305	Category 5E Patch, UTP, 24 AWG, Violet 305 Meter/1000 FT Pull Box
UTP4-C5E-PATCH-BK-305	Category 5E Patch, UTP, 24 AWG, Black 305 Meter/1000 FT Pull Box
UTP4-C5E-PATCH-YL-305	Category 5E Patch, UTP, 24 AWG, Yellow 305 Meter/1000 FT Pull Box
UTP4-C5E-PATCH-RD-305	Category 5E Patch, UTP, 24 AWG, Red 305 Meter/1000 FT Pull Box
UTP4-C5E-PATCH-PK-305	Category 5E Patch UTP, 24 AWG, Pink 305 Meter/1000 FT Pull Box



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