

Part Number: CAT5E-STR-HF-(color)

Description: 4 pair 24 AWG unshielded twisted pair ETL tested to IEC requirements for Low Smoke Zero Halogen standards for Lloyds Register Maritime applications
Product manufactured compliant to the requirements of UL444 and ANSI/TIA/EIA-568-C.2 requirements for patch cable
For installations in accordance with IEC requirements for Maritime vessels

Applications: Low Smoke Zero Halogen LAN patching up to 1000BaseT Networking.
High flex Horizontal Cabling for LAN networks, phone, Balun, IR, Audio, Video
Low Smoke Zero Halogen high flex control and instrumentation cabling

1.0 Conductor 1.1 Size and stranding: 24 AWG – 7/strand 1.2 Type: Bare copper 1.3 Diameter: 0.024" 0.61mm 1.4 Count: 4 pairs 2.0 Insulation 2.1 Material: HDPE, High Density Polyethylene 2.2 Wall thickness: 0.0075" 0.19mm 2.3 Diameter: 0.039" 0.99mm 3.0 Color Code 3.1 Code: ▪ P1: Orange and white/orange ▪ P2: Blue and white/blue ▪ P3: Green and white/green ▪ P4: Brown and white/brown 4.0 Assembly 4.1 Pair lay length: Varying between pairs 4.2 Pairs: Cabled on a common axis 4.3 Binder: None 4.4 Ripcord: Yes 5.0 Jacket 5.1 Material: Low Smoke Zero Halogen Polyolefin 5.2 Wall thickness: 0.022" 0.56mm 5.3 Color: Red, Yellow, Pink 5.4 Diameter: 0.240" 6.10mm 6.0 Marking 6.1 Type: Surface - Inkjet printed 6.2 Legend: LWC UTP CAT 5E PATCH 100 MHZ CAT5E-STR-HF-color 4PR/24AWG – UTP NON-HALOGEN CAT 5E PAT 5767441 LOT# DATE CODE 6.3 Foot Markers: Yes, batch marked every two feet	7.0 Electrical Properties 7.1 DC Resistance : $\leq 28.6 \Omega/1000'$ 93.8 Ω/KM 7.2 Capacitance: 17.0 pF/Ft 55.76 pF/M 7.3 Impedance: $100 \pm 15 \Omega$ 7.4 VOP: 69% 7.5 Delay (Skew): $< 45ns/100m$ 7.6 Max propagation delay: 545 ns/100m 7.7 Max Unbalanced Resistance: 4% 7.8 Voltage Rating: 300V 7.9 Sweep – See below. 8.0 Regulatory 8.1 IEC 60332-3 Flame Retardant 8.2 IEC 60754-1 Halogen Content 8.3 IEC 60754-2 Low Toxicity 8.4 IEC 61034-1 Low Smoke 8.5 ANSI/TIA/EIA-568-C.2 Category 5e Patch 8.6 RoHS: Yes 9.0 Package(s): 9.1 Reel: 1000 Ft 305 m 9.2 Box: 1000 Ft 305 m 9.3 Weight: 33 Lbs per 1000' 49 Kg per KM 10.0 Installation 10.1 Pull Tension: 25 Lbs 10.2 Bend Radius: 2.40" 122mm Unloaded 4.80" 244mm Loaded 11.0 Specification Control 11.1 Specification: LWC-AAA-00402 11.2 Revision: 0 11.3 Date: 08-03-2010
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7.9 Continued: Category 5e Patch performance.

FREQ (MHz)	Insertion Loss (dB/100m)		NEXT (dB)		PSNEXT (dB)		ACR (dB/100m)		PSACR (dB/100m)		ELFEXT (dB/100m)		PSELFEXT (dB/100m)		RL (dB)
	Max.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	
1.0	2.4	2.3	65.3	85.0	62.3	79.0	62.9	82.7	59.9	76.7	63.8	84.9	60.8	78.8	20.0
4.0	4.9	4.6	56.3	79.2	67.8	73.1	51.4	74.6	62.9	68.5	51.7	74.3	48.7	67.8	23.1
8.0	7.0	6.6	51.8	73.6	63.4	64.4	44.8	67.0	56.4	57.8	45.7	68.1	42.7	61.6	24.5
10.0	7.8	7.5	50.3	68.4	61.7	62.7	42.5	60.9	53.9	55.2	43.8	66.5	40.8	60.0	25.0
16.0	9.8	9.5	47.3	66.5	57.4	61.1	37.5	57.0	47.6	51.6	39.7	62.5	36.7	55.8	25.0
20.0	11.2	10.8	45.8	67.3	57.6	61.0	34.6	56.5	46.4	50.2	37.7	61.6	34.7	53.7	25.0
25.0	12.5	12.1	44.3	65.0	54.3	58.2	31.8	52.9	41.8	46.1	35.8	60.4	32.8	52.3	24.3
31.25	14.0	13.6	42.9	61.7	53.7	53.2	28.9	48.1	39.7	39.6	33.9	57.0	30.9	49.7	23.6
62.5	20.4	19.7	38.4	58.8	49.3	52.6	18.0	39.1	28.9	32.9	27.8	50.6	24.8	43.6	21.5
100.0	26.4	25.5	35.3	51.7	45.2	44.8	8.9	26.2	18.8	19.3	23.8	44.9	20.8	39.1	20.1

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