

## eXtreme™ Cat 5e U/UTP Cable, CM Rated

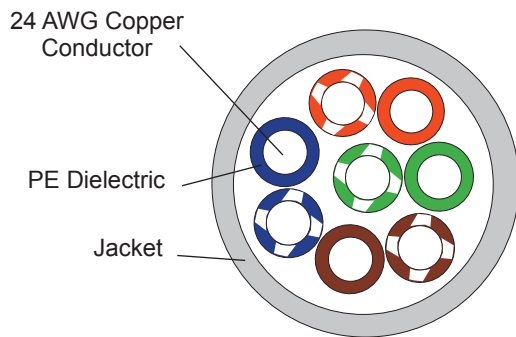
UTP5M-M\*x

### PART NUMBERS

Description	Part No.
eXtreme Cat 5e U/UTP Cable, CM Rated, blue, 305-meter reel in box	290-UTP5M-MLB
eXtreme Cat 5e U/UTP Cable, CM Rated, grey, 305-meter reel in box	291-UTP5M-MSB

### APPLICATION

IEEE 802.3: Gigabit Ethernet; 1000BASE-T; 100BASE-T; 10BASE-T



### STANDARDS COMPLIANCE

- ANSI/TIA-568.2-D
- ISO/IEC 11801-1 Class D
- EN 50173-1 Class D
- IEC 61156-5
- RoHS 2 Compliant
- IEEE 802.3bt PoE Type 1 (15.4 Watts) formerly 802.3af, Type 2 (30 Watts) formerly 802.3at, Type 3 (60 Watts)
- Cisco UPoE (60 Watts)

### FIRE RATING

- UL 1581
- UL 444 CM

### COUNTRY OF ORIGIN

Korea

Construction		
Conductor	Bare copper wire	24 AWG
Insulation	Polyethylene	Ø 0.90 mm
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: Blue+White/Blue      2: Orange+White/Orange 3: Green+White/Green    4: Brown+White/Brown	
Cable lay-up	4 pairs with different pitches	
Outer jacket	CM	
Outer diameter	Ø 5.2 mm ± 0.2 mm (.205")	

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<b>TECHNICAL SPECIFICATIONS</b>	
<b>Mechanical Properties</b>	
Bending Radius	≥ 4 x OD without load
Temperature range	during operation: -20° C ~ 75° C during installation: 0° C ~60° C
<b>Electrical Properties (-20° C ± 5° C)</b>	
DC resistance	Max. 9.38 Ω/100 m at 20° C
Resistance unbalance	Max. 5% at 20° C
Insulation resistance (500V)	Min. 5000 MΩ/Km at 20° C
Mutual capacitance	Nom. 5.6 nf/100 m at 1kHz
Capacitance unbalance (pair to ground)	Max. 330 pf/100 m at 1kHz
Characteristic impedance (1 - 100MHz)	(100 ± 15) Ω
Nominal velocity of propagation	70%
Test voltage (DC, 1 min.)	1 kV/1 min.
Delay Skew	≤ 45 ns/100 m

<b>Transmission characteristics acc. to ANSI/TIA-568.2-D Cat 5e (20° C)</b>							
Freq. (MHz)	Attenuation (dB) max.	NEXT (dB) min.	PS-NEXT (dB) min.	ELFEXT (dB) min.	PS-ELFEXT (dB) min.	Return Loss (dB) min.	Propagation Delay (ns/100m) max.
1	2.0	65.3	62.3	63.8	60.8	20.0	570.0
4	4.1	56.3	53.3	51.7	48.7	23.0	552.0
8	5.8	51.8	48.8	45.7	42.7	24.5	546.7
10	6.5	50.3	47.3	43.8	40.8	25.0	545.4
16	8.2	47.3	44.4	39.7	36.7	25.0	543.0
20	9.3	45.8	42.8	37.7	34.7	25.0	542.0
25	10.4	44.3	41.3	35.8	32.8	24.3	541.2
31.25	11.7	42.9	39.9	33.9	30.9	23.6	540.4
62.5	17.0	38.4	35.4	27.8	24.8	21.5	538.6
100	22.0	35.3	32.3	23.8	20.8	20.1	537.6

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