

eXtreme® Cat 5e U/UTP Cable, Riser Rated

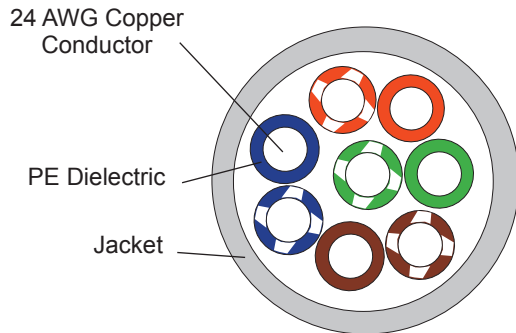
UTP5R-M*B

PART NUMBERS

| Description | Part No. |
|---|---------------|
| eXtreme Cat 5e U/UTP Cable, Riser Rated, blue, 305-meter reel in box | 290-UTP5R-MLB |
| eXtreme Cat 5e U/UTP Cable, Riser Rated, white, 305-meter reel in box | 291-UTP5R-MWB |
| eXtreme Cat 5e U/UTP Cable, Riser Rated, grey, 305-meter reel in box | 292-UTP5R-MSB |

APPLICATION

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



STANDARDS COMPLIANCE

ANSI/TIA-568-C.2
 ISO/IEC 11801 Class D
 IEC 61156-5
 EN50173
 RoHS Compliant

FIRE RATING

UL 1666

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 | CMR | |
| Outer diameter | Ø 5.2 mm ± 0.2 mm (.205") | |

TECHNICAL SPECIFICATIONS

| Mechanical Properties | |
|--|--|
| Bending Radius | ≥ 4 x OD without load |
| Temperature range | during operation: -20° C ~ 75° C during installation: 0° C ~60° C |
| Electrical Properties (-20° C ± 5° C) | |
| 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 | Max. 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 | 67% |
| Test voltage (DC, 1 min.) | 1 kV/1 min. |
| Delay Skew | ≤ 45 ns/100 m |
| Propagation Delay | ≤ 535 ns/100 m |

Transmission characteristics acc. to ANSI/TIA-568-C.2 Cat 5e (20° C)

| Freq. (MHz) | Attenuation (dB) max. | NEXT (dB) min. | PS-NEXT (dB) min. | ELFEXT (dB) min. | PS-ELFEXT (dB) min. | Return Loss (dB) min. |
|-------------|-----------------------|----------------|-------------------|------------------|---------------------|-----------------------|
| 1 | 2.0 | 65.3 | 62.3 | 63.8 | 60.8 | 20.0 |
| 4 | 4.1 | 56.3 | 53.3 | 51.7 | 48.7 | 23.0 |
| 8 | 5.8 | 51.8 | 48.8 | 45.7 | 42.7 | 24.5 |
| 10 | 6.5 | 50.3 | 47.3 | 43.8 | 40.8 | 25.0 |
| 16 | 8.2 | 47.3 | 44.4 | 39.7 | 36.7 | 25.0 |
| 20 | 9.3 | 45.8 | 42.8 | 37.7 | 34.7 | 25.0 |
| 25 | 10.4 | 44.3 | 41.3 | 35.8 | 32.8 | 24.3 |
| 31.25 | 11.7 | 42.9 | 39.9 | 33.9 | 30.9 | 23.6 |
| 62.5 | 17.0 | 38.4 | 35.4 | 27.8 | 24.8 | 21.5 |
| 100 | 22.0 | 35.3 | 32.3 | 23.8 | 20.8 | 20.1 |



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