

STRUCTURE CABLING

LAN CABLE

U/UTP unshielded CAT5e Twisted 8 Pair Installation Cable



Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- Patent products:CN201020293718. 1.

Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ·Km.
- Dielectric strength: DC 2500V 2S.

Nominal Transmission Characteristics

| Frequency (MHz) | RL (min) (dB) | IL(max) (dB/100m) | DOP(max) (ns/100m) | Delay Skew (max) (ns/100m) | NEXT (min) (dB) | PSNEXT (min) (dB) | ACR-F (min) (dB/100m) | PSACR-F (min) (dB/100m) |
|-----------------|---------------|-------------------|--------------------|----------------------------|-----------------|-------------------|-----------------------|-------------------------|
| 1 | 20.0 | 2.2 | 570 | 45 | 65 | 62 | 61 | 61 |
| 4 | 23.0 | 4.2 | 552 | 45 | 56 | 53 | 48 | 48 |
| 10 | 25.0 | 6.5 | 545 | 45 | 50 | 47 | 41 | 41 |
| 16 | 25.0 | 8.4 | 543 | 45 | 47 | 44 | 36 | 36 |
| 20 | 25.0 | 9.3 | 542 | 45 | 45 | 42 | 34 | 34 |
| 31.25 | 23.6 | 11.6 | 540 | 45 | 42 | 39 | 31 | 31 |
| 62.5 | 21.5 | 17.0 | 538 | 45 | 38 | 35 | 25 | 25 |
| 100 | 20.1 | 22.0 | 537 | 45 | 35 | 32 | 21 | 21 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

Copper Conductor
HDPE Insulation
Filler
Rip Cord
Jacket



Conductor

| | |
|--------------------------------------|---|
| Conductor | Solid Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 16, twisted in 8 pairs |
| Color code | White/Blue, White/Orange, White/Green, White/Brown, White/Grey, Red/Blue, Red/Orange, Red/Green |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

Order information

| Item | Outer Jacket | Overall diameter(mm) |
|----------|--------------|----------------------|
| D105-8-P | CMX | 8.1±0.2 |
| D105-8-C | CM | 8.1±0.2 |
| D105-8-R | CMR | 8.1±0.2 |
| D105-8-L | LSZH | 8.1±0.2 |
| D105-8-E | LDPE | 8.1±0.2 |