



Category 5e Shielded RJ-45 PVC or LSOH Modular Cords



Western Wire shielded copper RJ-45/RJ-45 CAT 5e modular cords, 100 Ohm impedance, 4-pair F/UTP for work area, jumper and patching in local area networks (LANs). Western Wire CAT 5e modular cords exceed all ANSI/TIA-568-C.2 and ISO/IEC 11801 requirements for Category 5e needed to support 1GBASE-T and their plugs fully conform to IEC 60603-7-3. The Western Wire Logo ensures long lasting high-performance and full support of 1GBASE-T (1 Gigabit-Ethernet).

Applications

Western Wire CAT 5e shielded modular cords fully support most present applications in standard Channels with up to 4 connectors including the following:

- 1000BASE-T Gigabit Ethernet
- ATM 155
- TP-PMD
- 100BASE-T "Fast Ethernet"
- 100BASE-T2, 100BASE-T4 & 100BASE-TX
- Token Ring 100 Mbps
- ATM 52 & ATM 25
- 10BASE-T Ethernet
- Token Ring 4 & 16 Mbps
- Broadband and Baseband Video
- ISDN Basic and Primary Access
- 1BASE-5 "Starlan"
- ITU V.21 & X.11

Features

- o Small Form design of 11.5 mm width - fits easily into most wall outlets and 24-port 1U blank panels.
- o Exceeding Category 5e performance - providing full support to 1 Gigabit Ethernet.
- o Exceptional material properties and cable design - providing the highest degree of reliability.
- o High Return Loss and NEXT Loss values - providing low BER (Bit-Error-Rate) in all applications.
- o Extremely high pair-balance and overall cable shield - providing excellent noise immunity.
- o Smooth and limp jacket - proving comfortable cord handling.
- o Low-smoke, Zero-Halogen optional constructions - providing maximum safety and minimum risk during fire.

Qualifications & Approvals

Western Wire CAT 5e modular cords are tested thoroughly and comply with IEC 60603-7-3 (8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 100 MHz) and conform to the following standards:

| | |
|--------------|--|
| Transmission | ANSI/TIA-568-C.2 CAT 5e ISO/IEC-11801 CAT 5e EN 50173 CAT 5e |
| EMC | EN-55022, Class B (Europe) FCC Part 15, Subpart J, Class A (USA) |
| Safety | UL94 V-0 rated plastic materials Zero-halogen in LSOH constructions EU Directive 2002/95/EC (RoHS) |

Electrical Properties @ 20C

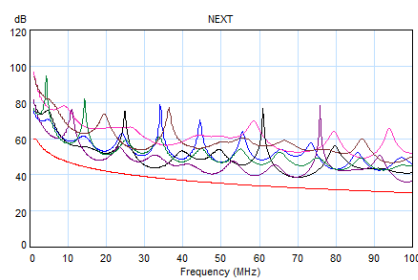
| | |
|--------------------------|-----------------------------|
| Characteristic Impedance | 100±6 Ohm @ 1-100 MHz |
| Contact Resistance | 20 mOhm max. |
| Resistance unbalance | 2% max. |
| Voltage rating | 72 Vdc max. |
| Dielectric strength | 1000 Volts/1 minute min rms |
| Ampacity: | 0.5 Amps max. |
| Insulation Resistance | 500 MOhm min. @ 500 Vdc |
| Coupling attenuation | 55 dB min @ 30-100 MHz |

Mechanical Properties

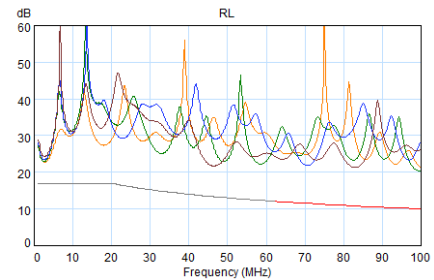
| | |
|--|---|
| 4 color-coded twisted pairs cabled together, overall foil shielded and jacketed. Both cable ends terminated with shielded RJ-45 modular plugs conforming to IEC 60603-7-3. | |
| Basic Cable Conductor | Stranded, 26 AWG, 7x0.16 mm, bare annealed copper |
| Wire Insulation | Polyolefin |
| Number of insulated conductors | 8, twisted in 4 pairs. |
| Color Code of Pairs | Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown. |
| Individual pair shield | None. |
| Overall shield | Polyester-Aluminum foil, providing 100% coverage with 25% overlap, aluminum facing out. |
| Drain wire | Stranded 26AWG, 7x0.16mm tinned-copper conductor... |
| Outer Jacket | LSOH Halogen free or PVC flame retardant compound. |
| Cable to plug tensile strength | 9 Kgf (90N) min. |
| Pulling force | 1 Kgf (10N) max. |
| Storage Temperature | -20 to +80C |
| Durability | 750 mating cycles |
| Cable OD | 5.5 mm nom. |
| Bend radius | 22 mm min. |
| Plug housing material | Polycarbonate, conforming to UL 94 V-0. |
| Plug contact material | Gold over 2.5 µm nickel plated copper alloy. |
| Temperature operating range | -20 to +60C |
| Flame Test | IEC 60332-1 |
| Halogen gas & smoke tests | IEC 60754 (gas) & IEC 61034 (smoke) |

Transmission Properties @ 20C

Typical Channel NEXT



Typical Channel RL



Ordering Information

| WW P/N | Description | Length | Jacket & Boot COLOR |
|--------------|---|--------|---------------------|
| G5E-30430-05 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 0.5 m | GRAY RAL 7035 |
| G5E-30440-05 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 0.5 m | GRAY RAL 7035 |
| G5E-30430-10 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 1.0 m | GRAY RAL 7035 |
| G5E-30440-10 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 1.0 m | GRAY RAL 7035 |
| G5E-30430-11 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 1.1 m | GRAY RAL 7035 |
| G5E-30440-11 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 1.1 m | GRAY RAL 7035 |
| G5E-30430-15 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 1.5 m | GRAY RAL 7035 |
| G5E-30440-15 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 1.5 m | GRAY RAL 7035 |
| G5E-30430-18 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 1.8 m | GRAY RAL 7035 |
| G5E-30440-18 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 1.8 m | GRAY RAL 7035 |
| G5E-30430-20 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 2.0 m | GRAY RAL 7035 |
| G5E-30440-20 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 2.0 m | GRAY RAL 7035 |
| G5E-30430-25 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 2.5 m | GRAY RAL 7035 |
| G5E-30440-25 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 2.5 m | GRAY RAL 7035 |
| G5E-30430-30 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 3.0 m | GRAY RAL 7035 |
| G5E-30440-30 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 3.0 m | GRAY RAL 7035 |
| G5E-30430-50 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 5.0 m | GRAY RAL 7035 |
| G5E-30440-50 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 5.0 m | GRAY RAL 7035 |
| G5E-30430-75 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 7.5 m | GRAY RAL 7035 |
| G5E-30440-75 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 7.5 m | GRAY RAL 7035 |
| G5E-30430-80 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 8.0 m | GRAY RAL 7035 |
| G5E-30440-80 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 8.0 m | GRAY RAL 7035 |
| G5E-30430-A0 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 10 m | GRAY RAL 7035 |
| G5E-30440-A0 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 10 m | GRAY RAL 7035 |
| G5E-30430-A5 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 15 m | GRAY RAL 7035 |
| G5E-30440-A5 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 15 m | GRAY RAL 7035 |
| G5E-30430-B0 | 4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 Modular Cord | 20 m | GRAY RAL 7035 |
| G5E-30440-B0 | 4x2x26# F/UTP Shielded CAT 5e LSOH RJ-45 Modular Cord | 20 m | GRAY RAL 7035 |

Other colors & lengths available upon request.