



Category 5e Shielded RJ-45 PVC or LS0H CCA 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) UL94 V-0 rated plastic materials
Safety	Zero-halogen in LS0H constructions EU Directive 2002/95/EC (RoHS)

Electrical Properties @ 20C

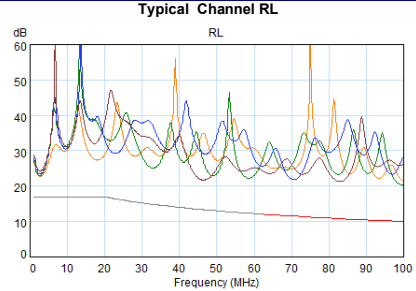
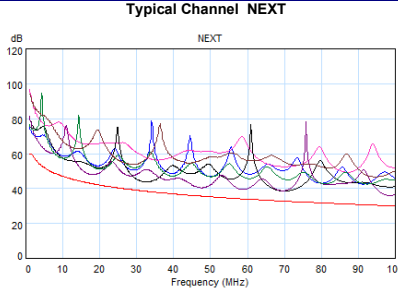
Characteristic Impedance	100±6 Ohm @ 1-100 MHz
Contact Resistance	20 mOhm max.
Resistance unbalance	2% max.
Voltage rating	72 Vdc max.
Dielectric strength	1000 Volts/1 minute min rms
Ampacity:	0.2 Amps max.
Insulation Resistance	500 MOhm min. @ 500 Vdc
Coupling attenuation	55 dB min @ 30-100 MHz

Mechanical Properties

Basic Cable Conductor	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.
Wire Insulation	Stranded, 26 AWG, 7x0.16 mm, bare copper clad aluminum (CCA).
Number of insulated conductors	Polyolefin
Color Code of Pairs	8, twisted in 4 pairs.
Individual pair shield	Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown.
Overall shield	None.
Drain wire	Polyester-Aluminum foil, providing 100% coverage with 25% overlap, aluminum facing out.
Outer Jacket	Stranded 26AWG, 7x0.16mm tinned-copper-clad-aluminum (T-CCA) conductor..
Cable to plug tensile strength	LS0H Halogen free or PVC flame retardant compound.
Pulling force	9 Kgf (90N) min.
Storage Temperature	1 Kgf (10N) max.
Durability	-20 to +80C
Cable OD	750 mating cycles
Bend radius	5.5 mm nom.
Plug housing material	22 mm min.
Plug contact material	Polycarbonate, conforming to UL 94 V-0.
Temperature operating range	Gold over 2.5 µm nickel plated copper alloy.
Flame Test	-20 to +60C
Halogen gas & smoke tests	IEC 60332-1
	IEC 60754 (gas) & IEC 61034 (smoke)

Transmission Properties @ 20C

Frequency MHz	NEXT Min. dB			RL Min. dB
	2m Cord	5m Cord	10 m Cord	
1.00	65.0	65.0	65.0	19.8
4.00	62.3	61.5	60.4	21.6
8.00	56.4	55.6	54.7	22.5
10.00	54.5	53.7	52.8	22.8
16.00	50.4	49.8	48.9	23.4
20.00	48.6	47.9	47.1	23.7
25.00	46.7	46.0	45.3	24.0
31.25	44.8	44.2	43.6	23.0
62.50	39.0	38.5	38.1	20.0
100.00	35.1	34.8	34.6	18.0



Ordering Information

WW P/N	Description	Length	Jacket & Boot COLOR
G5E-3A430-05	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	0.5 m	GRAY RAL 7035
G5E-3A440-05	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	0.5 m	GRAY RAL 7035
G5E-3A430-10	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	1.0 m	GRAY RAL 7035
G5E-3A440-10	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	1.0 m	GRAY RAL 7035
G5E-3A430-11	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	1.1 m	GRAY RAL 7035
G5E-3A440-11	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	1.1 m	GRAY RAL 7035
G5E-3A430-15	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	1.5 m	GRAY RAL 7035
G5E-3A440-15	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	1.5 m	GRAY RAL 7035
G5E-3A430-18	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	1.8 m	GRAY RAL 7035
G5E-3A440-18	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	1.8 m	GRAY RAL 7035
G5E-3A430-20	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	2.0 m	GRAY RAL 7035
G5E-3A440-20	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	2.0 m	GRAY RAL 7035
G5E-3A430-25	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	2.5 m	GRAY RAL 7035
G5E-3A440-25	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	2.5 m	GRAY RAL 7035
G5E-3A430-30	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	3.0 m	GRAY RAL 7035
G5E-3A440-30	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	3.0 m	GRAY RAL 7035
G5E-3A430-75	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	7.5 m	GRAY RAL 7035
G5E-3A440-75	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	7.5 m	GRAY RAL 7035
G5E-3A430-80	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	8.0 m	GRAY RAL 7035
G5E-3A440-80	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	8.0 m	GRAY RAL 7035
G5E-3A430-90	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	9.0 m	GRAY RAL 7035
G5E-3A440-90	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	9.0 m	GRAY RAL 7035
G5E-3A430-A0	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	10 m	GRAY RAL 7035
G5E-3A440-A0	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	10 m	GRAY RAL 7035
G5E-3A430-A5	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	15 m	GRAY RAL 7035
G5E-3A440-A5	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	15 m	GRAY RAL 7035
G5E-3A430-B0	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	20 m	GRAY RAL 7035
G5E-3A440-B0	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	20 m	GRAY RAL 7035
G5E-3A430-C0	4x2x26# F/UTP Shielded CAT 5e PVC RJ-45 CCA Modular Cord	30 m	GRAY RAL 7035
G5E-3A440-C0	4x2x26# F/UTP Shielded CAT 5e LS0H RJ-45 CCA Modular Cord	30 m	GRAY RAL 7035

Other colors & lengths available upon request.