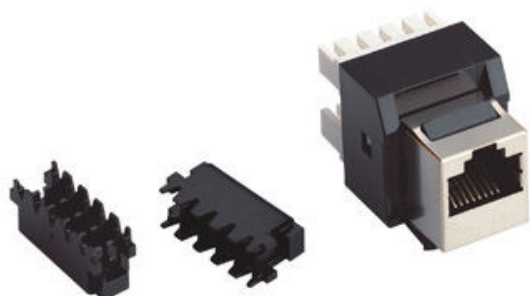




## Category 5e Partially Shielded RJ-45 180° Punch-Down Keystone Jacks



WW P/N GK5-00820

Western Wire partially shielded copper RJ-45 CAT 5e keystone jack series includes high performance shielded Category 5e snap-in 8-position/8-contact (8P8C) jacks conforming to IEC 60603-7-3 (shielded 100 MHz connectors). Western Wire jacks are designed for fast and easy snap-in and out of wall plates, patch panels and junction boxes. All Western Wire CAT 5e jacks are available with back interconnection of 110 IDC blocks in T568A or B wiring options compatible also with LSA-Plus tools. All jacks fully conform to and provide a substantial margin above all ANSI/TIA-568-C.2 Category 5e limits and IEC 60603-7-3 component requirements. The Western Wire Logo ensures long lasting high-performance and full support of most present applications, including 1GBASE-T (Gigabit-Ethernet).

### Applications

Western Wire CAT 5e Jacks fully support most present applications in standard Permanent links and 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

- Exceptional material properties and design - providing reliable and stable operation.
- 180° tool-less design - providing easier access, better and faster wire connection.
- Exceeding Category 5e performance - providing full support to Gigabit Ethernet.
- Robust and installer-friendly design - providing reduced installation and operating costs
- Compatible with 22-26 AWG conductors - providing support to a wider range of cables.

### Qualifications & Approvals

Western Wire CAT 5e jacks 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

#### Safety

UL94 V-0 rated plastic materials  
Zero-halogen in LSOH constructions  
EU Directive 2002/95/EC (RoHS)

### Electrical Properties @ 20C

Propagation Delay	2.5 nS max @ 1-500 MHz
Propagation Delay Skew	1.25 nS max @ 1-500 MHz
Current rating	1.5 A max.
Contact resistance	Spring: 100 mOhm max. IDC: 2.5 mOhm max.
Input/Output resistance	200 mOhm max
Input/Output resistance Unbalance	50 mOhm max
Voltage rating	72 Vdc max.
Dielectric strength	750 Vac/1 minute C to C 750 Vac/1 minute C to Panel
Insulation Resistance	1000 MegaOhm min @ 100 Vdc
Coupling attenuation	35 dB @ 30 - 100 MHz 35-20log(f/100) dB @ 100 - 1000 MHz

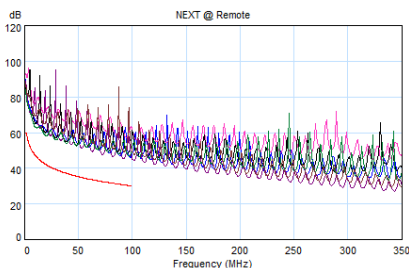
### Mechanical Properties

Plastic housing material	High impact, Flame-retardant plastic compound, UL 94 V-0.
Metal housing (Shield)	Nickel-plated brass.
Jack contacts spring material	High strength phosphor-bronze alloy.
Jack contacts plating	None.
IDC contacts material	High strength phosphor-bronze alloy.
IDC contacts plating	Nickel.
Operating environmental conditions	0 to +60C at 5-93% RH (Non condensing)
Storage environmental conditions	-40 to +85C at 5-93% RH (Non condensing)
Packaging	70 units per box.
Plug to jack Retention Force	50N min for 60 seconds..
Plug to jack mating force	9N max. for 8 wire jack.
Terminated wire retention force	Axial pullout force: 9N min. Normal pullout force: 44N min
Insertion/Extraction durability	750 mating cycles conforming to IEC 60603-7 Level A durability.
IDC termination durability	200 terminations min.
Conductor compatibility range	22 to 26 AWG.
Standard Color	Inner: White. Outer: Trans. black . Other colors available upon request.

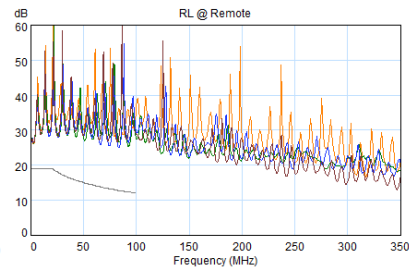
### Transmission Properties @ 20C

Frequency MHz	Insertion Loss dB		NEXT Loss dB		FEXT Loss dB		RL dB	
	Nom	Max	Nom	Min	Nom	Min	Nom	Min
1.00	0.02	0.10	85.0	65.0	77.0	65.0	55.0	30.0
4.00	0.03	0.10	75.0	65.0	65.0	63.1	50.0	30.0
8.00	0.04	0.11	70.0	64.9	60.0	57.0	48.0	30.0
10.00	0.04	0.13	68.0	63.0	58.0	55.1	42.0	30.0
16.00	0.05	0.16	64.0	58.9	54.0	51.0	40.0	30.0
25.00	0.06	0.20	60.0	55.0	50.0	47.1	35.0	30.0
31.25	0.07	0.22	58.0	53.1	48.0	45.2	33.0	30.0
62.50	0.11	0.32	52.0	47.1	42.0	39.1	28.1	24.1
100.00	0.15	0.40	45.0	43.0	38.0	35.1	24.0	20.0

Typical Channel NEXT



Typical Channel RL



### Ordering Information

WW P/N	Description	Termination	Orientation	Packaging
GK5-00820	8P8C RJ-45 Partially Shielded Category 5e Keystone Jack	Punch-Down	180 deg.	500 Units/box