

# Product Specifications

## Industrial Grade Field-Installable Plug Assemblies

### KEY FEATURES

- IP67-rated industrial-grade plugs with durable flexible cable strain relief for industrial use
- Rated for at least 750 plug insertions for high level system reliability
- Equipped with caps to prevent exposure of unplugged connectors
- Contacts are 50  $\mu$ m gold over 100  $\mu$ m nickel plated phosphor bronze



### ORDERING INFORMATION

PART NO.	DESCRIPTION
KRJ45IG-C6	Category 6 Unscreened Field-Installable Industrial Plug
KRJS45IG-C6	Category 6 Screened Field-Installable Industrial Plug
KRJ45IG-C5E	Category 5e Unscreened Field-Installable Industrial Plug
KRJS45IG-C5E	Category 5e Screened Field-Installable Industrial Plug

### SPECIFICATIONS

#### TRANSMISSION PERFORMANCE

ANSI/TIA-568-C.2: meets or exceeds category 5e (1-100 MHz) specifications  
 ANSI/TIA-568-C.2: meets or exceeds category 6 (1-250 MHz) specifications

#### TRANSMISSION MEDIA

4-pair stranded unscreened twisted pair (U/UTP)  
 4-pair stranded screened twisted pair (F/UTP)

#### WIRING SCHEME

ANSI/TIA/EIA-568-C.2: T568A & T568B  
 ISO/IEC 11801 2nd Ed.: 8-position pin/pair assignment (1-2/3-6/4-5/7-8)

#### CONSTRUCTION

##### Assembly:

**Plug:** FCC Part 68 Subpart F

**Plug Housing:** IP67-rated industrial-grade thermoplastic

**Insulation:** Industrial-grade thermoplastic

**IDC Blades:** Phosphor bronze, min 50  $\mu$ m of gold plating over 100  $\mu$ m of nickel in contact area

**Screen:** Brass alloy plated with 100  $\mu$ m of nickel

**Dimensions:** 3.94" L x 1.25" Dia (100 x 31.7 mm)

#### MECHANICAL

**Retention:** 50 N (11 lbf) for 60  $\pm$  5 s

**Mating Cycle Life:** Min 750 cycles

**Tensile Strength:**  $\geq$  20 N per wire



#### ELECTRICAL

**Insulation Resistance:** Min 500 MOhm @ 100 Vdc

##### Dielectric Withstanding Voltage:

1,000 Vdc/ac peak contact-to-contact @ 60 Hz for 1 min

1,500 Vdc/ac peak contact-to-contact @ 60 Hz for 1 min (screened only)

**Contact Resistance:** Max 20 mOhm

#### ENVIRONMENTAL CONDITIONS

**Operating Temperature:** 14  $^{\circ}$ F to 140  $^{\circ}$ F (-10  $^{\circ}$ C to 60  $^{\circ}$ C)

**Storage Temperature:** -40  $^{\circ}$ F to 158  $^{\circ}$ F (-40  $^{\circ}$ C to 70  $^{\circ}$ C)

##### Operating RH:

**Plug:** 93% Max (non-condensing)

**Housing:** IP67 - offers complete protection against dust and protection against the effects of temporary immersion up to 1 m (3 ft)

#### COMPLIANCE

ANSI/TIA-568-C.2, IEC 60603-7, IEC 61156-6, IEC 60332-1-2, FCC Part 68 Subpart F, UL 94V-0

#### APPLICATIONS

X.21, V.11, S0, ISDN, CSMA/CD 10BASE-T, 100BASE-TX, 100BASE-T4, 100BASE-T2, 1000BASE-T, 10GBASE-T (up to 55 m (180 ft)), TR 4/16/100, 100BASE-VG, ATM LAN 25/51/155, TP-PMD

#### WARRANTY

5 - Year Limited Component