IndustrialNet™ Category 6A RJ45 Field Terminable Plug

**specifications**

8-position, industrial plug shall be applicable for use in manufacturing as well as other industrial environments. The product shall meet or exceed the component requirements of the ANSI/TIA-568-C.2 Category 6 and Category 5e, ISO 11801 Class E and Class D, and ODVA Ethernet/IP®, PROFINET, and CC-Link standards. It shall also meet the channel requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 2nd Edition Class E2 in a 4-connector configuration up to 100 meters at swept frequencies up to 500MHz when installed with other Panduit Category 6A components. The RJ45 plug shall be constructed of zinc die cast housing with 360° shielding and shall include a dust cap. The plug shall incorporate an ingress protection rating of IP20 and offer an extended temperature range as required for more demanding applications. The plug shall be capable of termination to either a 2-pair or 4-pair solid or stranded twisted pair copper cable.

**technical information**

- **Electrical/mechanical performance:** Exceeds channel and pair cord requirements of ANSI/TIA-568-C.2 Category 6 and Category 5e, and ISO 11801 Class E and Class D standards at swept frequencies up to 250MHz and 100MHz respectively and conforms to ODVA Ethernet/IP®, PROFINET and CC-Link electrical and mechanical performance requirements when installed with other Panduit components.
- **Meet the channel requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 2nd Edition Class E2 in a 4-connector configuration up to 100 meters at swept frequencies up to 500MHz when installed with other Panduit Category 6A components.**
- **UL/IEC compliance:** Meets UL 1863 and IEC 60603-7-51
- **IP compliance:** Rated IP20
- **RoHS compliance status:** Compliant
- **PoE compliance:** Meets IEEE 802.3af and IEEE 802.3at for PoE applications
- **Temperature rating:** -40°C to 85°C (-40°F to 185°F) operating and storage
- **Wiring scheme:** T568A/T568B
- **Conductor termination range:** ISPS688FA: Solid 24/1-22/1 AWG, 0.020 in.-0.025 in. (0.51mm-0.64mm); Stranded 27/7-22/7 AWG, 0.018 in.-0.030 in. (0.46mm-0.76mm); Stranded 24/19-22/19 AWG, 0.024 in.-0.031 in. (0.61mm-0.78mm); ISPS688FAS: Solid 25/1-24/1 AWG, 0.016 in.-0.020 in. (0.41mm-0.51mm); Stranded 27/7-24/7 AWG, 0.018 in.-0.024 in. (0.46mm-0.61mm); Stranded 26/19 AWG, 0.020 in. (0.51mm)
- **Insulation termination range:** ISPS688FA: 1.0 – 1.6mm (0.039 – 0.063 in.)
- **ISPS688FAS: 0.85 – 1.0mm (0.033 – 0.039 in.)**
- **Cable jacket diameter range:** 5.0 – 9.0mm (0.197 – 0.354 in.)
- **Packaging:** 1 unit per PE bag, 10 units per carton

**key features and benefits**

- **Robust construction**
  - Zinc die cast housing with 360° shielding and full metal shielding between wire pairs; secure data transmission in high noise (EMI/RFI) environments; dust cap protection; three strain relief settings (cable diameters 5.0mm to 9.0mm)
- **Field attachable**
  - Can be assembled in 60 seconds; Knipex parallel jaw pliers, part number 86 03 250, required
- **Extended temperature range**
  - -40°C to 85°C (-40°F to 185°F)

**applications**

Constructs of a robust die cast housing and fully shielded, the plug is ideal for use in high temperature applications, data transfer from the switch or PLC out to the interface that protects the integrity of the Ethernet data transfer from the switch or PLC out to the devices, or up to the horizontal plant backbone.

www.panduit.com
**IndustrialNet™ Category 6A RJ45 Field Terminable Plug**

**Pin Assignment T568A**
According to TIA/EIA-568-C.2

- GR
- WH/GR
- WH/OR
- OR
- WH/BU
- BU

**Pin Assignment T568B**
According to TIA/EIA-568-C.2

- OR
- WH/OR
- WH/BU
- BU
- WH/GR
- GR

**Dimensions are in inches. [Dimensions in brackets are metric.]**

- Dust Cap
- Plug Housing
- Wire Manager
- Figure Shown
  - Dust Cap Removed
  - Dust Cap in Place
- Figure Shown
  - Plug Housing Wire Manager

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

**WORLDWIDE SUBSIDIARIES AND SALES OFFICES**

PANDUIT US/CANADA
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
Phone: 65.6805.7575

PANDUIT JAPAN
Tokyo, Japan
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
Phone: 61.3.9794.9020

For more information
Visit us at www.panduit.com
ial@panduit.com

©2018 Panduit Corp.
ALL RIGHTS RESERVED.
COSP339--WW-ENG
10/2018