

RJ45 IDC Data Connector

Field attachable with metallic shielded housing



PRODUCT BULLETIN

RJ45 field attachable connectors with IDC technology, suitable for individual requirements to quickly establish data transmission connections in Cat 5e, Cat 6 and Cat 6A categories. Thanks to the metallic housing, external force effects are mitigated by the high shock and vibration resistance during installation or operation of the connectors.

- **IDC wire connection** technology for quick and easy assembly without additional installation tools
- **CC-Link IE Field & CC-Link IE TSN** tested and certified
- **Robust shielded metallic housing design** suitable for harsh industrial applications

CC-Link IE Field

CC-Link IE TSN






Key Features

- Available variants Cat 5e, Cat 6 and Cat 6A
- Data transmission rates: Fast Ethernet 100Mbit/s, Gigabit Ethernet 1Gbit/s and 10Gbit/s
- UL compliance according UL 1863
- IDC wire connection
- Designed for AWG22 - AWG26
- Support stranded and solid conductor types
- Up to 20 cycles for re-assembling

Metal housing and fully shielded design for use in harsh environments where connection quality is critical.

Technical Information

Type	RJ45 Cat 5e Shield Field Terminable Plug	RJ45 Cat 6 Shield Field Terminable Plug	RJ45 Cat 6A Shield Field Terminable Plug
			

Product Description

	RJ45, Cat 5e shielded field terminable plug, IP20 industrial metal housing, IDC connection	RJ45, Cat 6 shielded field terminable plug, IP20 industrial metal housing, IDC connection	RJ45, Cat 6A shielded field terminable plug, IP20 industrial metal housing, IDC connection
Part Number	90000003	90000005	90000006

General Data

Termination Type	RJ45
Termination Front	Mated Connection
Housing Material	Metal, zinc diecast, shielded
Dimensions (W x H x D)	44.1 mm x 14 mm x 14 mm
Weight	16.5g
Ambient Temperature	-10°C to +60°C (operation)
Protection Degree	IP20
Packaging Unit	1 pc

Technical Data

Conductor Type	Stranded & Solid
IDC Wire Gauge	AWG 22-26
Insulation Diameter	Max. 1.6 mm
Nominal Diameter (Cable Ø)	6.0 - 8.0 mm
Termination Front Connection Durability	750 cycles
Termination Rear Connection Durability	Max. 20 cycles
Max Insertion and Withdrawal Force	20 N

Connection Materials

Contact Blade (Pins)	Phosphor Bronze alloy plated with 50 micro-inch of Gold
IDC connection	Phosphor Bronze alloy with 100 micro-inch 100% Sn Alloy

Electrical Characteristics

Operating Voltage	55V		
Rated Current per Contact	max. 1.75A		
Insulation Resistance	500 mΩ min. 100 DC		
Dielectric withstanding Voltage	1000V AC/DC Peak		
Transmission Rate	100 Mbit/s	1 Gbit/s	10 Gbit/s
Transmission Bandwith	100 MHz	250 MHz	500 MHz

Approvals / Standards

UL Compliance	UL1863
Markings	PoE+, CC-Link IE Field / CC-Link IE TSN
EU Directive 2011/65/EU (RoHS 2)	Yes
ANSI Compliance	ANSI/TIA 568.2-D.2

Packaging Information

Included Parts	CAP module and nut module
Packaging	Individually packed in a plastic bag, Standard pack of 1 units.

We reserve the right to make technical changes.