Introducing
# CeeLok Fas-T Connector
*10 GBASE-T connector*

**te.com/ADM**

**TE** connectivity

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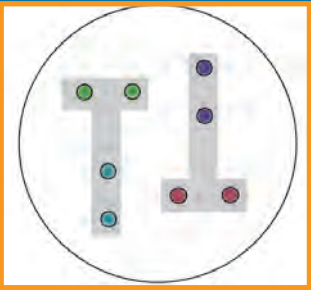Optional nickel plate
shown in this photo

## KEY FEATURES

Accommodates size 8 shell for weight and space savings

10 Gbit-Ethernet - Cat 6A or Cat 7 wire

1 Gbit-Ethernet - Cat 5e

Crimp-snap, 39029-style contacts for easy termination and field repairability

**T-shaped pin pattern improves SI through uniform crosstalk cancellation**

Backshell integrated in plug body provides low profile, low cost, low weight strain relief & EMI protection

Compatible with multiple braid terminations, adaptor styles and seal boots

Insert assembly mechanically retained for ≥25 lb. retention force

Scoop–proof design

## DESCRIPTION

Small, rugged connector designed for 10 GBASE-T or other 100 Ohm applications

Field repairable crimp-snap contacts

38999 Style, size 8 shell

## APPLICATIONS

10 GBASE-T Ethernet data transmission in harsh aerospace and defense environments

Cat 6A or Cat 7 compatible for 10 Gbit-Ethernet

Cat 5e compatible for 1 Gbit-Ethernet

Military applications include:
   Soldier worn devices, Missiles, Rotary Wing, C4I, Ground Vehicles, Fixed
   Wing Aircraft and Shipboard

Commercial Aerospace applications include:
   IFE, Avionics

## ELECTRICAL

| 10 Gbit-Ethernet | Cat 6a or Cat 7 wire |
|---|---|
| 1 Gbit-Ethernet | Cat 5e |

Electrical performance specifications:
   - Insulation resistance: 500 mega-ohms ambient, 1000 Mega-ohms at 175˚C
   - Dielectric withstanding voltage: 500 VAC sea level, 100 VAC @ 50,000 ft.
   - Shielding effectiveness per MIL-DTL-38999
   - Shell to shell conductivity - 2mV max.

## MECHANICAL

Performance Specifications:
   - Vibration, Sine:          MIL-STD-202, Condition G (30G)
   - Vibration, Random:        EIA-364-28 Condition V Letter J (37.8G)
   - Durability:               500 mating cycles
   - Contact Retention:        10 lb. min.
   - Coupling Torque:          8 in-lb. max.

## MATERIALS

| Shell: | Aluminum alloy for lightweight, rugged performance |
|---|---|
| Insert: | High temperature thermoplastic for excellent temperature endurance. Low dielectric constant for superior signal integrity. |
| Contacts: | Copper alloy |

## STANDARDS & SPECS

Product Spec:      108-2482

## APPLICATION TOOLING

Crimp tool PN:      M22520/2-01

Plug Kit Assembly

Receptacle Kit Assembly

PC Tail Assembly

## PHYSICAL OR OTHER PROPERTIES

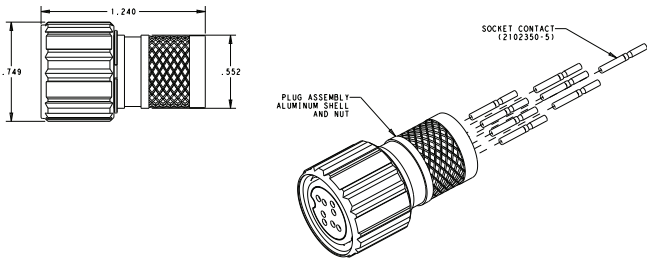| Operating Temperature: | -65˚C to +175˚C |
|---|---|
| Altitude Immersion: | 50,000 ft. (mated condition) |
| Unmated Condition: | IP 67 |

Shells available in Electroless Nickel or Black Zinc Nickel for DOD-Approved, RoHS compliant, corrosion resistance (500 hr Salt Mist)
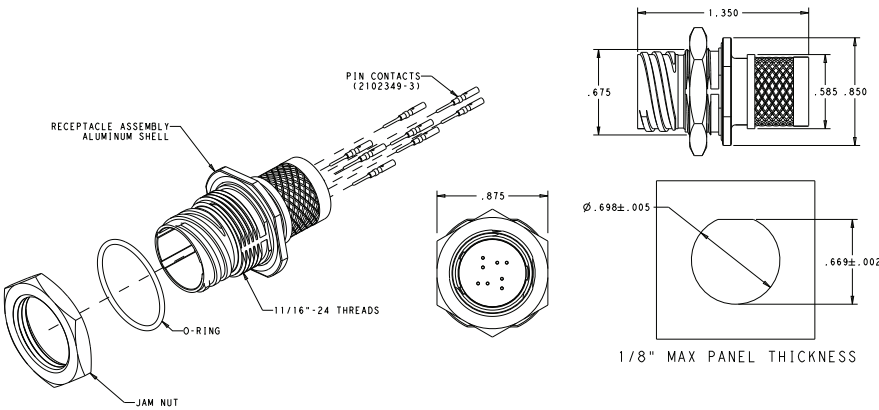
## ORDERING INFORMATION

| Nickel Plate: | | Black Zinc Nickel: | |
|---|---|---|---|
| Plug | 2102353-1 | Plug | 2102353-2 |
| Receptacle | 2102352-1 | Receptacle | 2102352-2 |
| PC Tail Receptacle | 2102351-1 | PC Tail Receptacle | 2102351-2 |

## PRODUCT DIMENSIONS