



CeeLok FAS-T CONNECTORS

10 GB/S ETHERNET CONNECTIVITY . . . COMPACT . . . RUGGED . . . RELIABLE



10 Gb/s ethernet connectivity . . . compact . . . rugged . . . reliable



HIGH SPEED

- Gigabit or 10 Gigabit rates
- Compatible with Cat 5e, Cat 6a or Cat 7 cables
- T-shaped pin pattern improves signal integrity through uniform crosstalk cancellation

SPACE AND WEIGHT SAVINGS

• Compact size 8 shell

EASY TERMINATION AND FIELD REPAIRABILITY

• Crimp-snap, 39029-style contacts

FLEXIBLE BACKSHELL/ SHIELDING OPTIONS

- Backshell integrated in plug body provides low profile, low cost, low weight strain relief and EMI protection
- Compatible with multiple braid termination techniques, adapter styles and seal boots

RUGGED

- Scoop-proof design
- Insert assembly mechanically retained for ≤25 lb. retention force
- Robust coupling ring mechanism

CeeLok FAS-T connectors offer a small form factor, field terminable I/O connector capable of 10 Gb/s Ethernet. Crimp-snap contacts enable easy termination and field repairability. The integral backshell offers easy 360-degree shield termination.

The compact size 8 shell helps designers meet the needs of reduced SWaP (size, weight, and power).

The connector's T-shaped contact pattern provides noise cancellation and decoupling to minimize crosstalk and increase signal integrity.

The CeeLok FAS-T connector is a true 100-ohm impedance connector that is compatible with Cat 5e and Cat 6a cables and protocols ranging from the USB and IEEE 1394 to gigabit and 10G Ethernet.









Performance Characteristics

DATA RATES

• Gigabit and 10 Gigabit Ethernet when used with Cat 5e, Cat 6a or Cat 7 cables

ELECTRICAL

- Insulation Resistance: 5000 M Ω ambient, 1000 M Ω @ 175°C
- Dielectric Withstanding Voltage: 500 VAC @ sea level 100 VAC @ 70,000 ft.
- Shielding Effectiveness: per MIL-DTL-38999
- Shell-to-Shell Conductivity: 5 mV initial, 10 mV final

MECHANICAL

- **Vibration, Sine:** MIL-DTL-38999 Series III (60 g), 4 hrs per axis, no elevated temperature
- Condition VI Letter J (43.92 g)

 Durability: 500 mating cycles

 Contact Retention: 10 lb. min.

 Coupling Torque: 8 in-lb. max.

• Vibration, Random: EIA-364-28

ENVIRONMENTAL PROPERTIES

- Operating Temperature: -65°C to +175°C
 Sealing: Altitude immersion: 70,000 ft. (mated condition)
- IP67: Mated condition
- IPX6 (water jet): Receptacle, panel mounted (unmated condition)
- Corrosion Resistance: 500 hr. salt mist

MATERIALS

- **Shell:** Electroless nickel for DOD-approved, RoHS-compliance, corrosion resistance (500 hr salt mist)
- Insert: High-temperature thermoplastic for excellent temperature endurance
- Low dielectric constant for superior signal integrity
- Contacts: Beryllium copper alloy

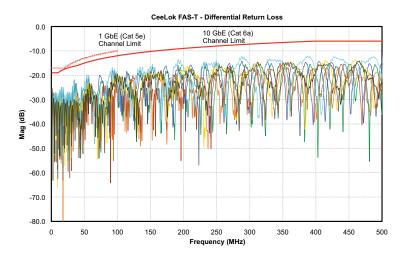
STANDARDS AND SPECIFICATIONS

- Product Specification: 108-2482
 Application Specification: 114-32025
 Instruction Sheet: 408-32046
 Test Report: 501-134002
- Electrical Performance Report: 505-116000

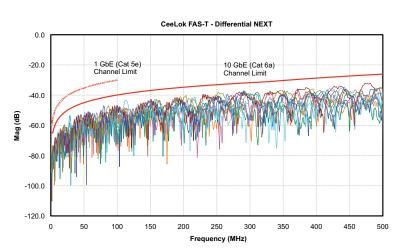




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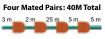


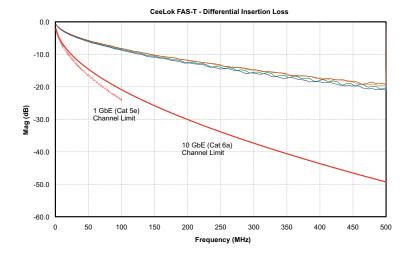
CeeLok FAS-T Differential Return Loss



CeeLok FAS-T Differential NEXT

Four Mated Pairs: 40M Total





CeeLok FAS-T Differential Insertion Loss

CeeLok FAS-T Connectors

T	Contacts Included	Key	Part No.		
Type			Electroless Nickel	Black Zinc Nickel	
Plug		N	2102353-1	2102353-2	
	Socket	Α	2102353-3	2102353-4	
		В	2102353-5	2102353-6	
		N	2102353-7	2102353-8	
	None	Α	2102353-9	1-2102353-0	
		В	1-2102353-1	1-2102354-2	
		N	2102352-1	2102352-2	
	Pin	A	2102352-3	2102352-4	
Receptacle		В	2102352-5	2102352-6	
		N	2102352-7	2102352-8	
	None	A	2102352-9	1-2102352-0	
		В	1-2102352-1	1-2102352-2	
Box-Mount Receptacle		N	2102343-1	2102343-2	
	Pin	A	2102343-3	2102343-4	
		В	2102343-5	2102343-6	
		N	2102343-7	2102343-8	
	None	A	2102343-9	1-2102343-0	
		В	1-2102343-1	1-2102343-2	
	Pin	N	2102453-1	2102453-2	
Box-Mount Receptacle, PC Tail	Pin	Α	2102453-3	2102453-4	
	Pin	В	2102453-5	2102453-6	
Jam Nut Receptacle, PC Tail	Pin	N	2102351-1	2102351-2	
	Pin	Α	2102351-3	2102351-4	
	Pin	В	2102351-5	2102351-6	

Contacts

	Part No.		
Wire Size	Pin Sock Hood	Socket, Hooded	
24 – 26 AWG	2102349-3	2102350-5	

Application Tooling

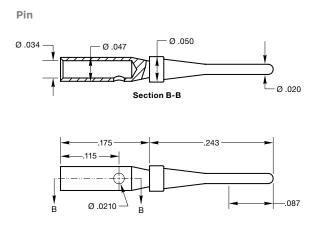
Hand Crimp Tool:

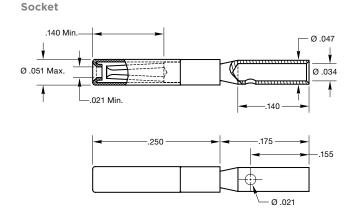
M22520/2-01

Crimp Positioner:

TE Part No. 2217375-1 Insertion/Extraction Tool:

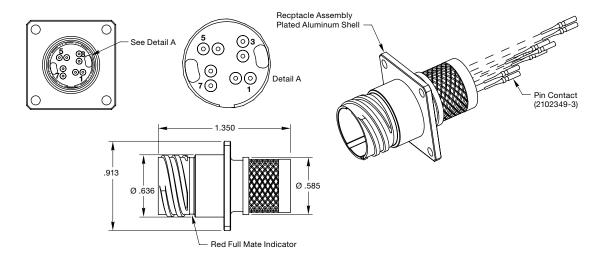
TE Part No. 2217376-1



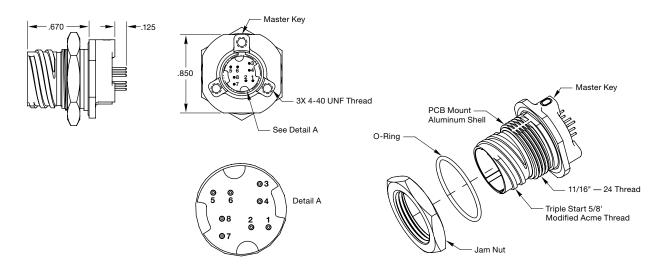


PRODUCT DIMENSIONS

Boxmount Receptacle Kit Assembly Part No. 2102343



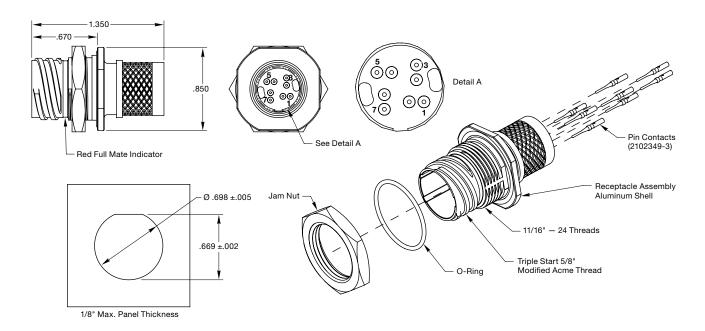
Jam Nut Receptacle Assembly, PC Tail Part No. 2102351

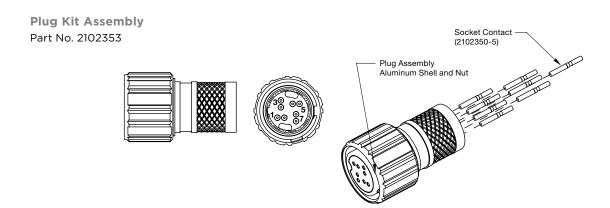


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PRODUCT DIMENSIONS

Receptacle Kit Assembly Part No. 2102352

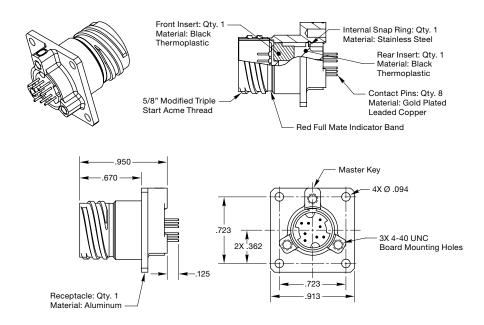




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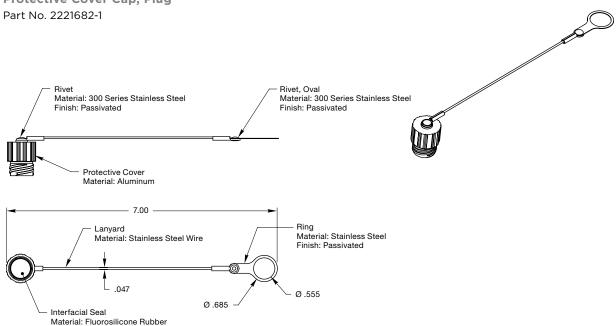
PRODUCT DIMENSIONS

Boxmount Receptacle Assembly, PC Tail Part No. 2102453



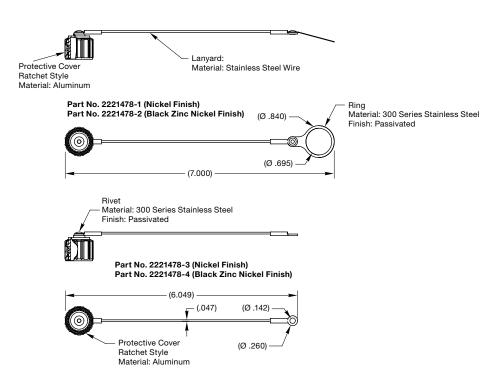
PRODUCT DIMENSIONS

Protective Cover Cap, Plug



Protective Cover Cap, Receptacle

Part No. 2221478-x



ACCESSORIES

SolderSleeve Shield Terminators



Convenient and Effective

- Terminates a ground lead to cable shield in order to ground the shield
- Simple, quick termination
- Available with and without pigtails

Versatile

- Center or end strip for ease of termination
- Handles wide range of high data rate cables and diameters

Environmental

- Operating temperature:
 -55°C to +200°C
- Environmentally sealed
- Mechanically robust

Physical or Other Properties

- Terminates tin, silver and nickel flat or round braids
- Provides 360° of shielding

Product Offering

 Contact TE for a complete listing of SolderSleeve shield terminators

CRES-Lock Bandstraps



Easy to Use

 Quick, easy, cost-effective and reliable termination of braided shielding

High Performance

• Low profile, one-piece design eliminates EMI leakage paths

Rugged

 Shock, vibration and environmental tested to meet aerospace and defense requirements

Electrical

- Operating Temperature:
 -65°C to +200°C
- Electrical Resistance: Meets ≤1.0 mΩ requirement of AS85049/128
- Corrosion Resistance:
 500 hr. salt spray

Mechanical

- Tensile Strength: 200 lb.
- Braid Retention: Meets 100 lb. requirement of AS85049/128

Application Tooling

• Micro Tie-Dex II, A30199

Description	Part No.	
Bandstrap	BND-0812S	

ACCESSORIES

Heat-Shrinkable Molded Boots



Hazard Matched

- Different materials to meet different temperature and environmental requirements
- Optional with pre-applied adhesives for quick installation and high-reliability IP67 sealing
- Epoxy sealing kits available

Versatile

- Sealing and strain relief to the wires and cables
- Straight or 90 degree cable exit

Application Tooling

 HL1910E or the HG-501A ThermoGun heat gun and appropriate hot air reflectors

Product Offering

Temperature	Material	Adhesive Lined	Size* mm	Descriptive Part No.	
Range				Straight	90°
-20°C to 60°C —	Flexible polyolefin	Yes	24/10.4/5.6	202K121-4/42-0	222K121-4/42-0
	Flexible polyolefin	Yes	30/14.2/5.9	202K132-4/42-0	222K132-4/42-0
-55°C to 120°C	Fluid-resistant elastomer	Yes	30/14.2/5.9	202K132-25/86-0	222K132-25/86-0
-55°C to 135°C	Flexible polyolefin	No	30/14.2/5.9	202K132-4-0	222K132-4-0
-55°C to 200°C	Modified fluoroelastomer	No	30/14.2/5.9	202K132-12-0	222K132-12-0
-75°C to 150°C	Fluid-resistant elastomer	Yes	30/14.2/5.9	202K132-25/225-0	222K132-25/225-0
	Fluid-resistant elastomer	No	30/14.2/5.9	202K132-25-0	222K132-25-0

^{*}Size = as-supplied diameter both ends/recovered diameter connector end/recovered diameter cable end.

High-Data-Rate Cables



Compact and Lightweight

- Thin-wall technology for smaller, lighter cables
- 28 AWG to 22 AWG conductors

Versions for Common Protocols

- Fast and Gigabit Ethernet in Cat 5e and Quadrax configurations
- IEEE 1394
- USB

Rugged

- Specialized TE developed polymer formulations designed to support better mechanical and thermal performance in harsh environments
- State-of-the-art FAA approved foam dielectrics for better signal transmission
- Ruggedized zero halogen jacket for marine applications that passes the rigorous military standards for flammability while meeting stringent smoke and toxicity requirements

Customizable

- Customizable to meet missioncritical needs such as EMI, fluid resistance, and flammability
- Hybrid designs
- Electrical testing capability, including skew and eye patterns

Robust

- Operating temperature range from -55°C to +200°C
- Full range of shielding options for signal integrity

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CONNECT WITH US

We make it easy to connect with our experts and are ready to provide all the support you need. Visit **te.com/support** to chat with a Product Information Specialist.

QUALITY STARTS WITH THE RIGHT APPLICATION TOOLING

Creating a quality crimp connection is essential to delivering high performance and reliability in extreme environments. From low to high volume wire processing, TE has you covered with a full range of application tooling and a global field service team.

- · View all application tooling
- · Connect with our experts to find the right tool for your application

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单击下面可查看定价,库存,交付和生命周期等信息

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