CINCH MIL/AERO
Circulars

RJ45 D38999
C-RJFTV Series

About Bel

Bel is a publicly traded company that has been operated by the same family for over 65 years. Our history of organic growth and acquisitions have broadened our product portfolio. This has established Bel as a world leader with a diverse offering of power, protection and interconnect products. We design and manufacture these products which are primarily used in the networking, telecommunications, computing, military, aerospace, transportation and broadcasting industries. Bel's portfolio of products also finds application in the automotive, medical and consumer electronics markets.

About Cinch Mil/Aero Circulars

Cinch Mil/Aero Circulars connectors and custom connectors available with hermetic sealing in any circular connector configuration. These glass-sealed packages are used mostly in critical components and assemblies for aerospace use, where leakage must be prevented even under extreme changes in temperature, pressure, and humidity.
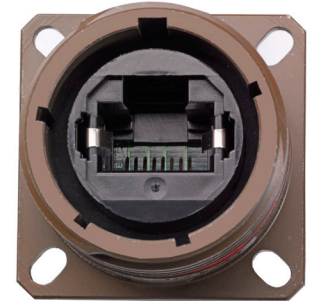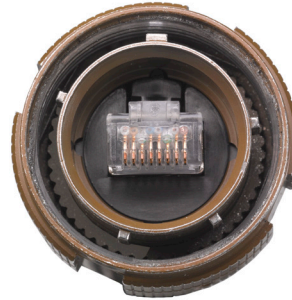
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Overview

Features

- D38999 series III style shell
- EMI protection with shielded cable
- Shell sizes 17 and 19, which is the smallest size on the market today and allows for communications speeds through 1G Base-T Ethernet
- Available in a variety of metals and plating's
- Minimum of 500 mating cycles

- Sealed to IP68
- Four keyways availableStandby Output (Always Present)
- 1U Form Factor
- Forward & Reverse Airflow
- I²C Communication Interface with PMBus® Protocol for Control, Programming and Monitoring

Applications

- Harsh Environment Connectivity
- Military Communication
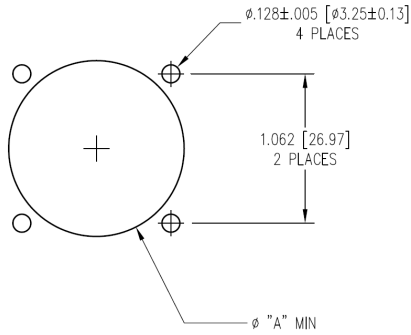- Railway
- Oil and Gas
- Renewable Energy Industry

Data Transmission

- 10 Base-T, 100 Base-T, and 1G Base-T Ethernet
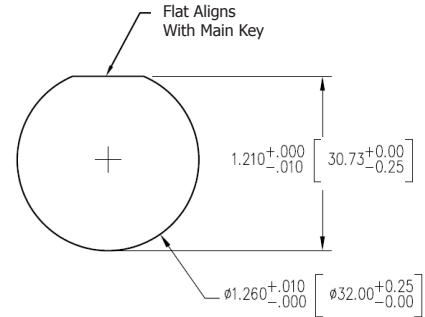- High performance connectivity, up to 100 MHz

Panel Mounting

Recommended Panel Dimensions

ø.128±.005 [ø3.25±0.13]
4 PLACES

1.062 [26.97]
2 PLACES

ø "A" MIN

Panel Cutout
.125 [3.2] Max Panel Thickness

Panel Mounting Side	"A" Diameter
Front	1.016 in (25.81 mm)
Rear	1.219 in (30.96 mm)

* If back shell is used when front mounting, "A" = 1.219 in (30.96 mm)

Jam Nut Mounting

Recommended Panel Dimensions

Flat Aligns
With Main Key

1.210 +.000 / -.010 [30.73 +0.00 / -0.25]

ø1.260 +.010 / -.000 [ø32.00 +0.25 / -0.00]

Panel Cutout
.125 [3.2] Max Panel Thickness

Panel Mounting Side	"A" Diameter
Front	1.016 in (25.81 mm)
Rear	1.219 in (30.96 mm)

* If back shell is used when front mounting, "A" = 1.219 in (30.96 mm)

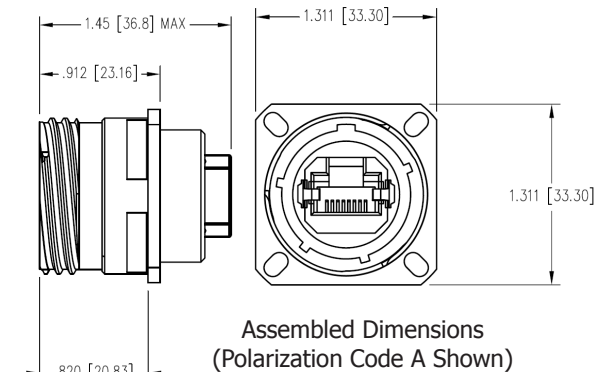### Plug Connector

1.21 [30.6] MAX

15/16 [24 mm]
NOMINAL HEX

RJ45 Connector

1.47 [37.3] MAX

.875 [22.23]

Receptacle Connector

1.45 [36.8] MAX

.912 [23.16]

1.311 [33.30]

1.311 [33.30]

.820 [20.83]
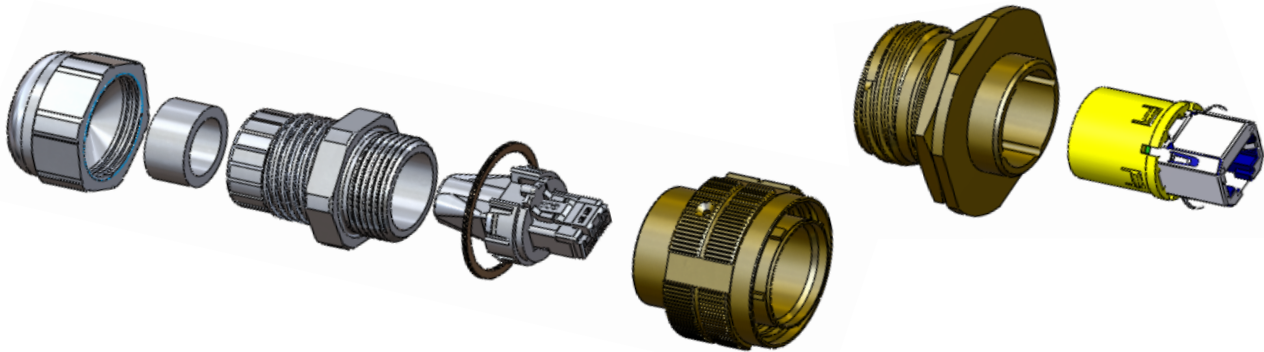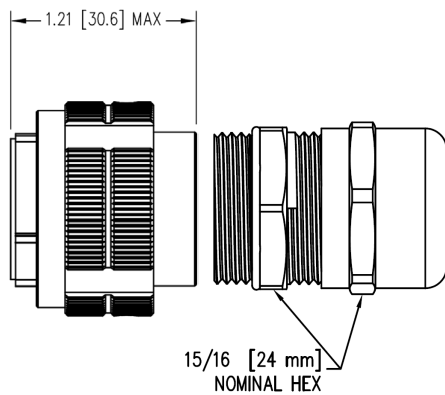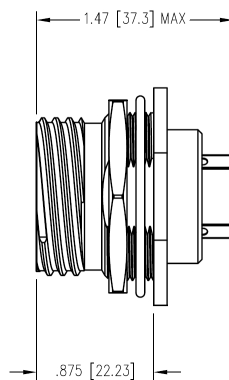
Assembled Dimensions
(Polarization Code A Shown)

*For Information on Size 19 Panel Dimensions, Contact Factory

Ordering Information

C-RJFTV 5E 17 06 1 G 03 K123

RJ45 38999 Series III

C-RJFTV

Performance

5E - Suited for 10 BaseT, 100 BaseT, 1G BaseT

Shell Size

17 - Size 17
19 - Size 19

Shell Type

02	- Receptacle, square flange
02BS	- Receptacle, square flange, IP68 backshell, plastic gland
02BSM	- Receptacle, square flange, IP68 backshell, metal gland
06P	- Plug, straight, plastic gland
06M	- Plug, straight, metal gland
07	- Receptacle, jamnut
07BS	- Receptacle, jamnut, IP68 backshell, plastic gland
07BSM	- Receptacle, jamnut, IP68 backshell, metal gland

Back end termination (omit for shell type 06)

1 - RJ45, Female, Straight

Modification Code - Optional

(Contact Cinch Engineering for special requirements and codes)

Cordset Length

03 - 0.3 meter
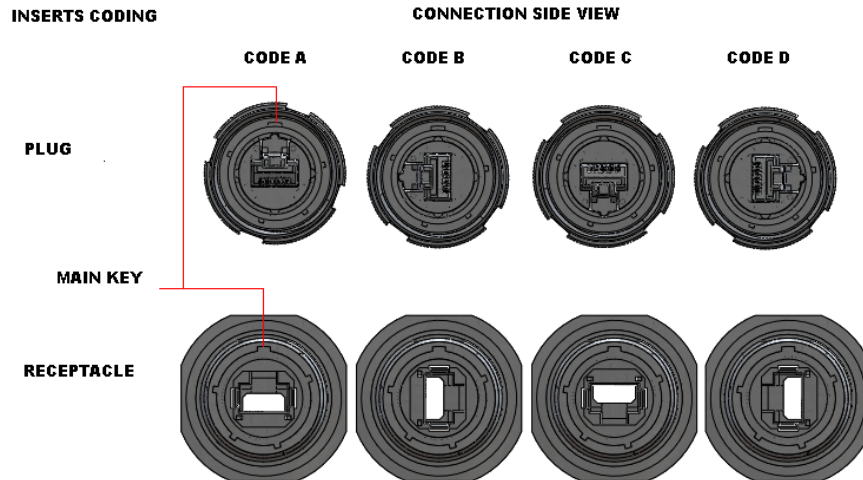**05 -** 0.5 meter
10 - 1.0 meter
15 - 1.5 meter

Shell Material & Plating

G - Aluminum shell, olive drab plating
N - Aluminum shell, nickel plating (RoHS)
SS - Stainless steel, passivated (RoHS)
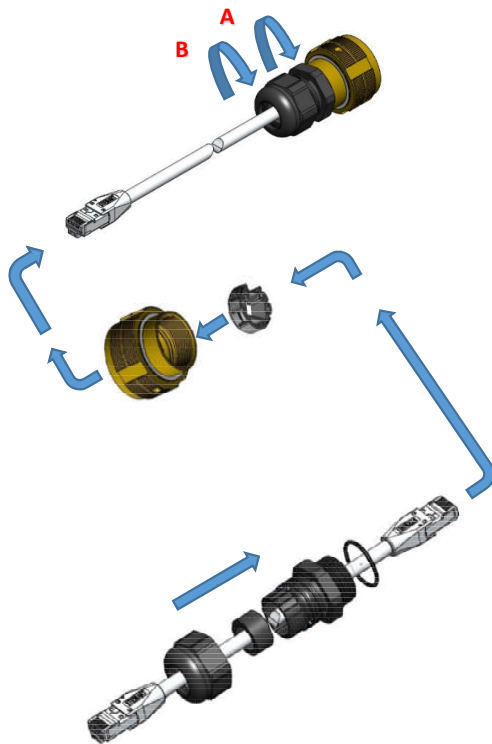**BZ -** Marine bronze (RoHS)

Polarizing Codes

INSERTS CODING

CONNECTION SIDE VIEW

CODE A   CODE B   CODE C   CODE D

PLUG

MAIN KEY

RECEPTACLE

Plug Connector

A
B

RJ45 Connector

B

A
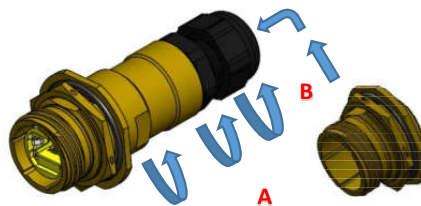
Receptacle Connector
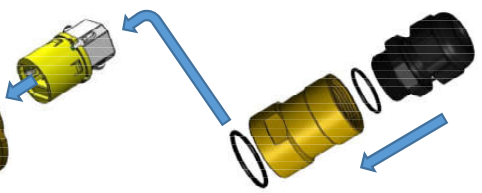
C-RJFTV Insert Removal Tool

.200 [30.48]

.524 [13.31]

.450 [11.43]

Ø.818 [20.78]

Ø.815 [20.70]

USE THIS END
FOR CABLES/PLUGS

KNURLED SURFACE

USE THIS END
FOR RECEPTACLES
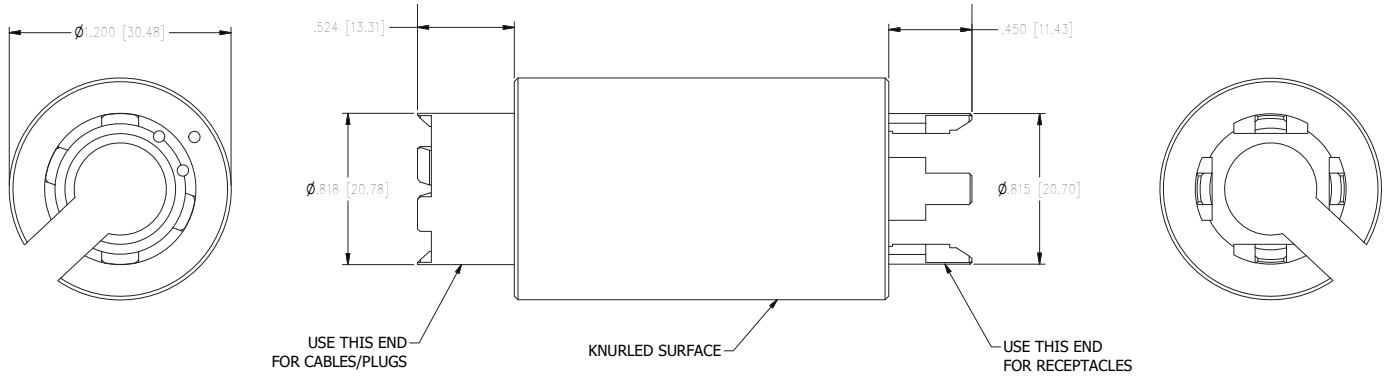
Tightening Torque (Mn)

		Polymer	Metal
Gland Body	A	5.00	7.5
Gland Cap Nut	B	3.3	5.0
Back Shell	C	N/A	4.5

Ordering Information

**Use Insert Removal Tools when Changing Polarizations**

Part Number	Description
2940262-01	Plug/Receptacle Insert Removal Tool

About Cinch Connectivity Solutions

For over 100 years, Cinch Connectivity Solutions has manufactured high-quality and reliable high-performance connectors and cable assemblies. Cinch is recognized as a world class connectivity supplier of RF, fiber optic, hybrid, microwave components, circular, d-subminiatures, modular rectangular, electronic enclosures and cable assemblies.

Cinch provides innovative solutions to the military, commercial aerospace, networking, telecommunication, test and measurement, oil and gas and other harsh environment industries.
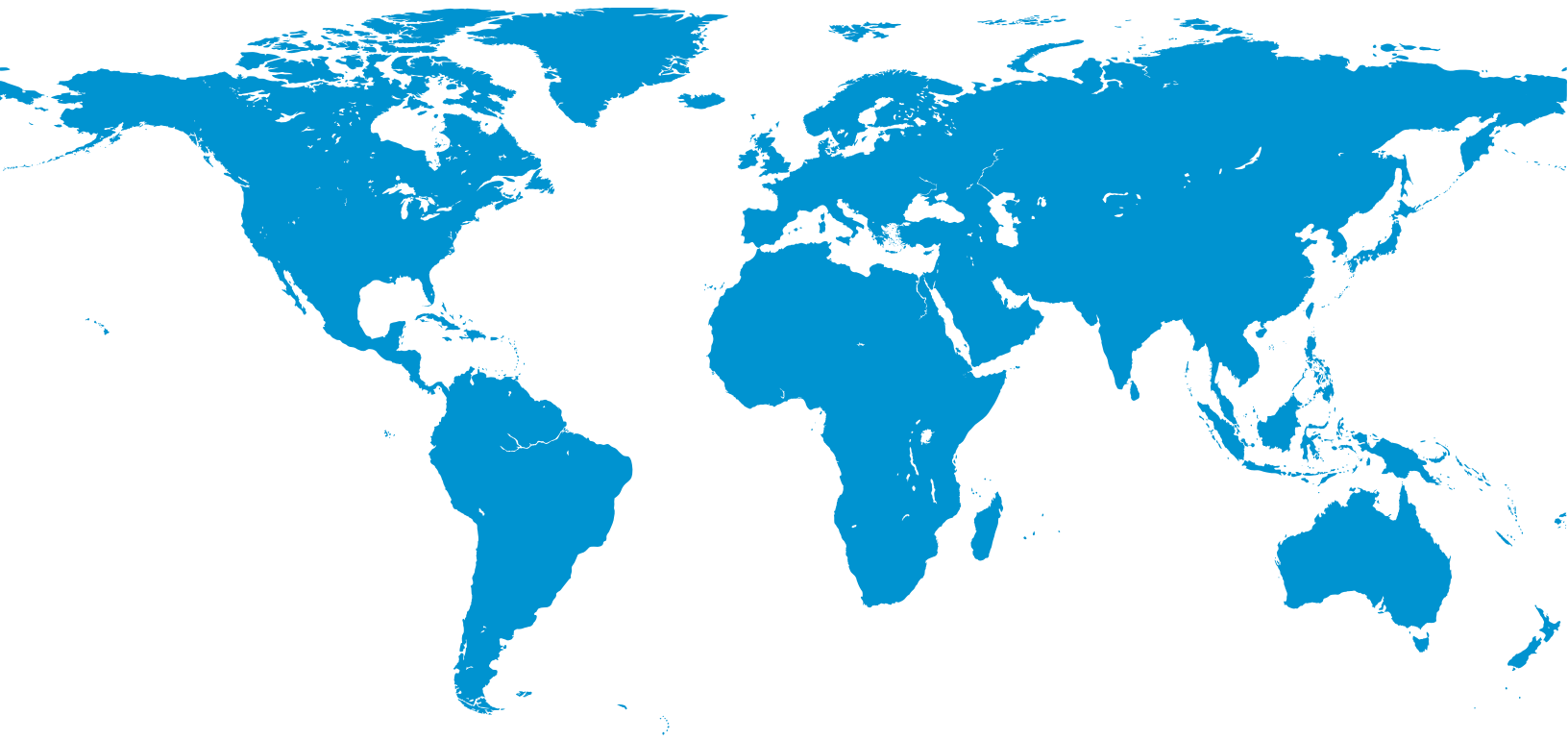
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