

# 10G-BASE-SR

## COPPER/FIBER MEDIA CONVERTERS



### Stand-alone dual channel fiber protocol converter good for 1G and 10G Ethernet.

This product converts two channels of 1G or 10G-Base-T copper Ethernet to fiber optic protocols. In the 1G-Base-T protocol, the corresponding fiber protocol is 1G-Base-SX. In the 10G-Base-T protocol, the corresponding fiber protocol is 10G-Base-SR. The product auto-negotiates the fastest speed on the copper side of the interface and then sets the fiber speed. In addition to the functionality, the part comes as a stand-alone item to add to a platform with a 28VDC input power connector.

#### FEATURES & BENEFITS :

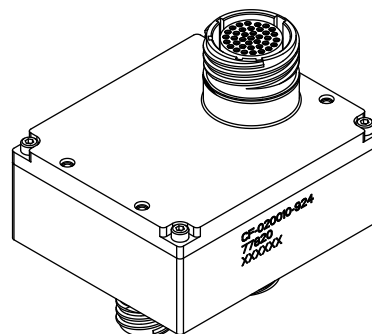
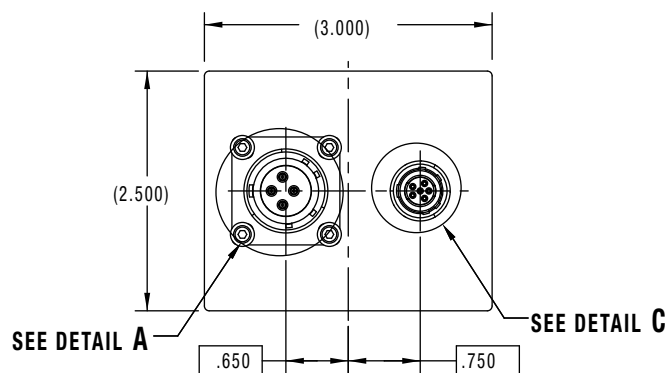
- Copper protocols are auto-negotiated and can be 1G-Base-T or 10G-Base-T compliant to IEEE 802.3an standards
- Fiber protocols can be 1G-Base-SX and 10G-Base-SR compliant to industry standards.
- Fiber optic output power is -3dBm minimum.
- Fiber optic receive sensitivities are -13dBm minimum.
- Power supply is 28V; 5 Watts max
- Stand-alone adapter for integrating systems
- Expandable from 1G to 10G speeds
- Conduction cooled and -40C-+85C temperatures

#### MARKET APPLICATIONS:

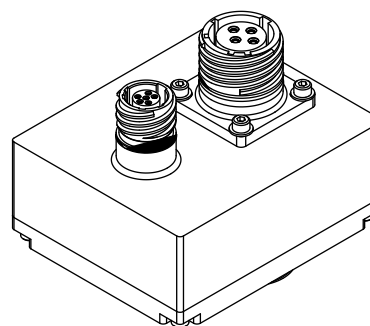
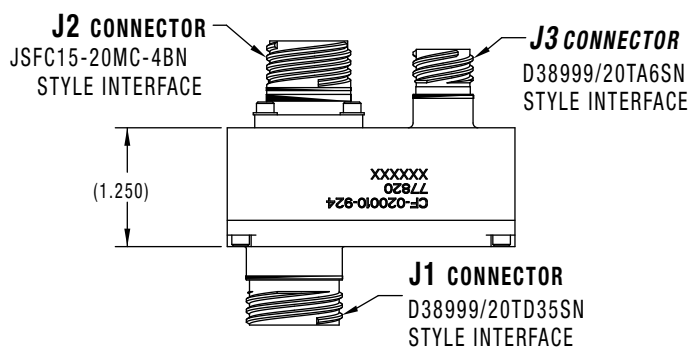
- Harsh environment avionics
- Ground systems
- Naval applications
- Sensor systems

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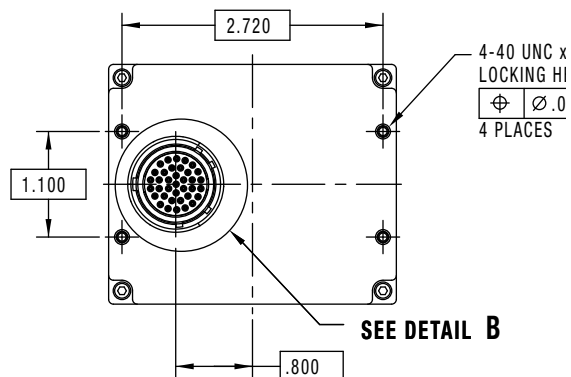
CF-020010-924



J1 ISOMETRIC VIEW

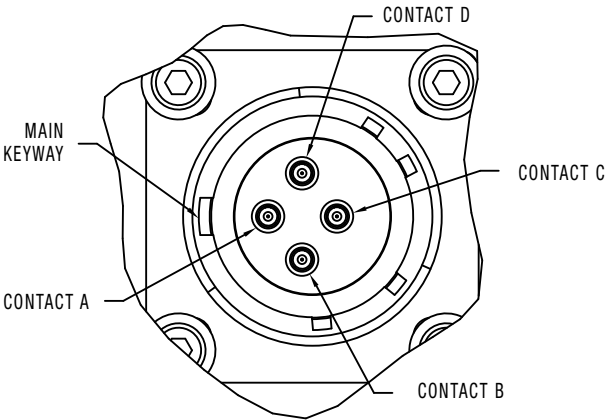


J2 & J3 ISOMETRIC VIEW

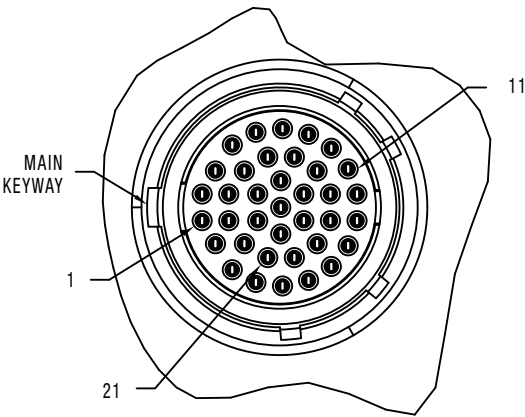


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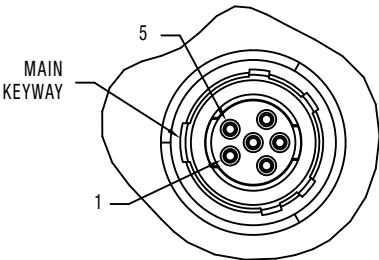
## CF-020010-924



**DETAIL A**  
(INSERT ARRANGEMENT L-21813-4)  
SCALE 4.000



**DETAIL B**  
(INSERT ARRANGEMENT L-21815-35)  
SCALE 4.000



**DETAIL C**  
(INSERT ARRANGEMENT L-21809-6)  
SCALE 4.000

| J1 D38999/20TD35SN |                    |
|--------------------|--------------------|
| PIN ID             | Description        |
| 1                  | POWER_RETURN       |
| 2                  | PORT1_10GBASET_DA+ |
| 3                  | PORT1_10GBASET_DA- |
| 4                  | POWER_RETURN       |
| 5                  | PORT2_10GBASET_DC- |
| 6                  | PORT2_10GBASET_DC+ |
| 7                  | POWER_RETURN       |
| 8                  | PORT2_10GBASET_DB- |
| 9                  | PORT2_10GBASET_DB+ |
| 10                 | POWER_RETURN       |
| 11                 | PORT2_10GBASET_DA- |
| 12                 | PORT2_10GBASET_DA+ |
| 13                 | DEBUG              |
| 14                 | PORT1_10GBASET_DC- |
| 15                 | PORT1_10GBASET_DC+ |
| 16                 | POWER_RETURN       |
| 17                 | PORT1_10GBASET_DB- |
| 18                 | PORT1_10GBASET_DB+ |
| 19                 | DEBUG              |
| 20                 | DEBUG              |
| 21                 | POWER_RETURN       |
| 22                 | PORT2_10GBASET_DD+ |
| 23                 | POWER_RETURN       |
| 24                 | POWER_RETURN       |
| 25                 | SPARE              |
| 26                 | SPARE              |
| 27                 | DEBUG              |
| 28                 | PORT1_10GBASET_DD- |
| 29                 | DEBUG              |
| 30                 | DEBUG              |
| 31                 | DEBUG              |
| 32                 | PORT2_10GBASET_DD- |
| 33                 | DEBUG              |
| 34                 | DEBUG              |
| 35                 | PORT1_10GBASET_DD+ |
| 36                 | DEBUG              |
| 37                 | POWER_RETURN       |

| J2 JSFC15-20MC-4BN |                 |
|--------------------|-----------------|
| PIN ID             | Description     |
| A                  | PORT 1 TX FIBER |
| B                  | PORT 1 RX FIBER |
| C                  | PORT 2 TX FIBER |
| D                  | PORT 2 RX FIBER |

| J3 D38999/20TA6SN |                |
|-------------------|----------------|
| PIN ID            | Description    |
| 1                 | DC POWER 28VDC |
| 2                 | SPARE          |
| 3                 | SPARE          |
| 4                 | GROUND         |
| 5                 | SPARE          |
| 6                 | SPARE          |

# Amphenol Aerospace

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