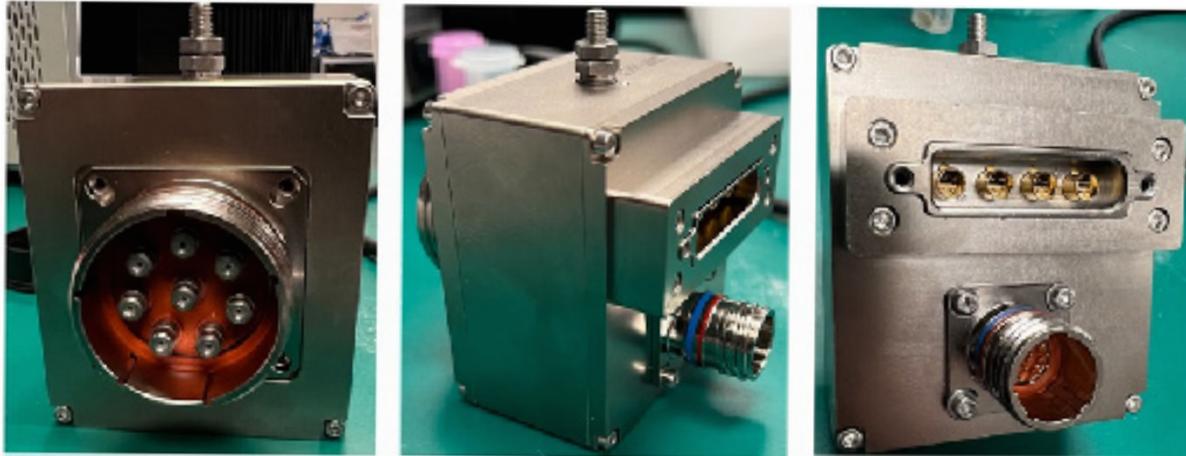


MEDIA CONVERTER FOR USE IN A VACUUM ENVIRONMENT

PDS - 515



DESCRIPTION

This media converter provides the perfect solution for the use inside of a vacuum environment. Featuring four channels of copper transmit and receive along with four channels of duplex fiber with low outgassing requirements and vacuum tested parts.

FEATURES

- Vacuum baked parts at 257° F (125° C) and 10^{-6} torr for 48 hours minimum.
- Low outgassed FiberQuad contacts, not exceeding 1% TML and 0.1% CVCM4X
- Split pair Quadrax contacts for up to 6 Gbps per pair
- 8X FiberQuad active contacts for 4X channels of 10GBASE -SR operation -40° F (-40° C) to 185° F (85° C) operating temperatures
- Master Clear Pin External Reset functionality
- ICD2 debugger pins for PIC interfacing

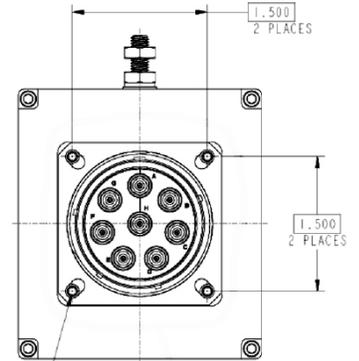
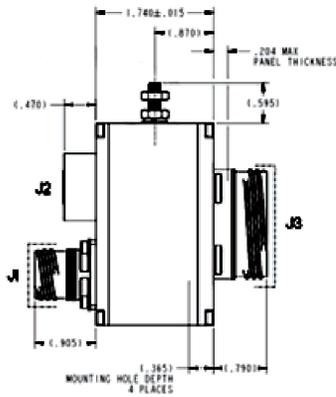
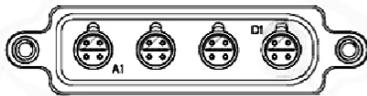
COPPER INTERFACE

- D38999 style connectors with various keying and rotations available.

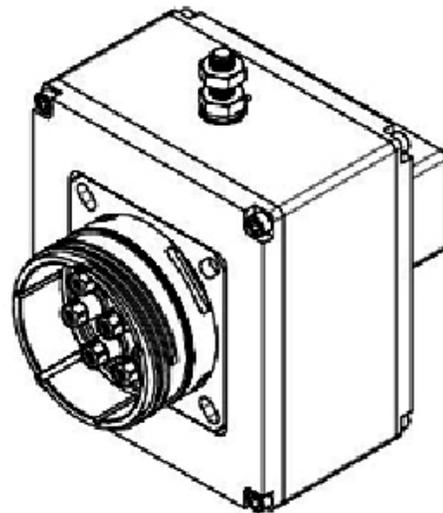
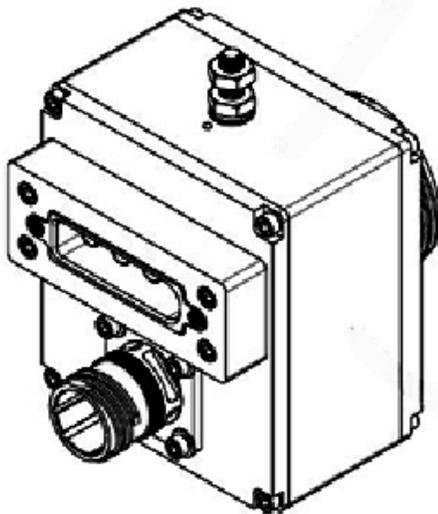
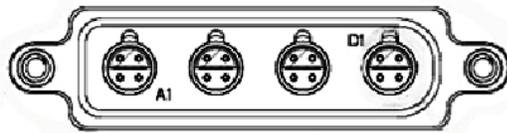


MECHANICAL SPECIFICATIONS

CF-020400-42X



MOUNTING HOLE
HELICAL INSERT
4-40 LOCKING
 $\pm .0050$
4 PLACES



OPOELECTRIC SPECIFICATIONS

ABSOLUTE MAXIMUM SPECIFICATIONS

PARAMETER	SYMBOL	MINIMUM	TYPICAL	MAXIMUM	UNIT
Data Rate	BR	-	-	10.3125	Gbps
Supply Voltage	Vcc	-	28	-	V
Operating Temperature	Top	-40	-	85	° C
Storage Temperature	Tsto	-40	-	85	° C

ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBOL	MINIMUM	TYPICAL	MAXIMUM	UNIT
Power Dissipation	Pdiss	-	-	1	W
Supply Current	Icc	-	-	100	mA
Input Differential Impedance	Zin	90	100	110	Ω
Differential Input Voltage Swing	Vin. diff	200	-	1600	mV

TRANSMITTER SPECIFICATIONS

PARAMETER	SYMBOL	MINIMUM	TYPICAL	MAXIMUM	UNIT
Center Wavelength	λ	830	-	870	nm
Average Launch Power	TXPavg	-1.5	-	-9.0	dBm
Optical Extinction Ratio	ER	3	4.5	12	dB

RECEIVER SPECIFICATIONS

PARAMETER	SYMBOL	MINIMUM	TYPICAL	MAXIMUM	UNIT
Center Wavelength	λ	830	-	870	nm
Receiver Power	RXPavg	-	-	-9.0	dBm
Optical Return Loss	ORL	-	20	12	dB

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
CF-020400-42X*	Copper to fiber media converter for use in a vacuum environment

*To complete part number, X is key rotation (N, A, B, C, D, E)

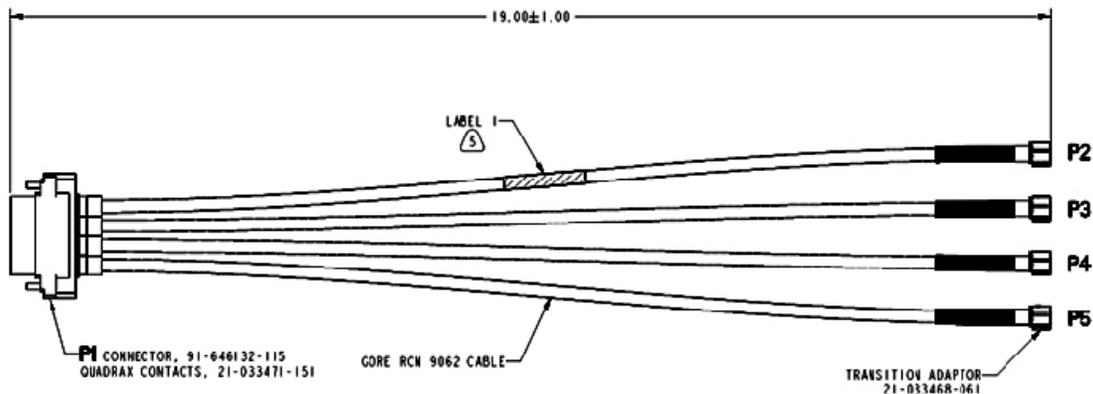
ACCESSORIES

TEST CABLES

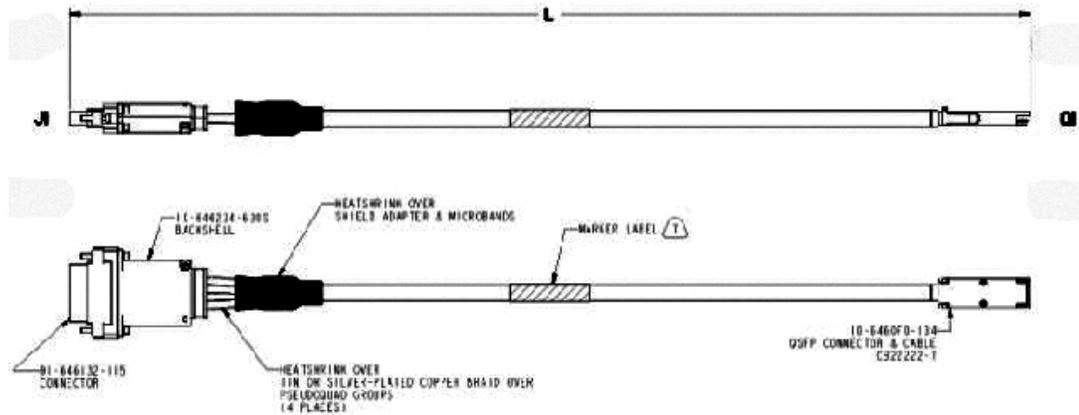
PART NUMBER	DESCRIPTION
CA-628485-G56	Rectangular Quadrax mate to flying leads
CA-628485-G77	Rectangular Quadrax mate to transition adaptors
CA-628485-H4X*	Rectangular Quadrax mate to QSFP
CA-628485-H5X*	Rectangular Quadrax mate to SMA Plug

*To complete part number, X is code for length. Contact Amphenol for drawing showing length options or any configurations not listed

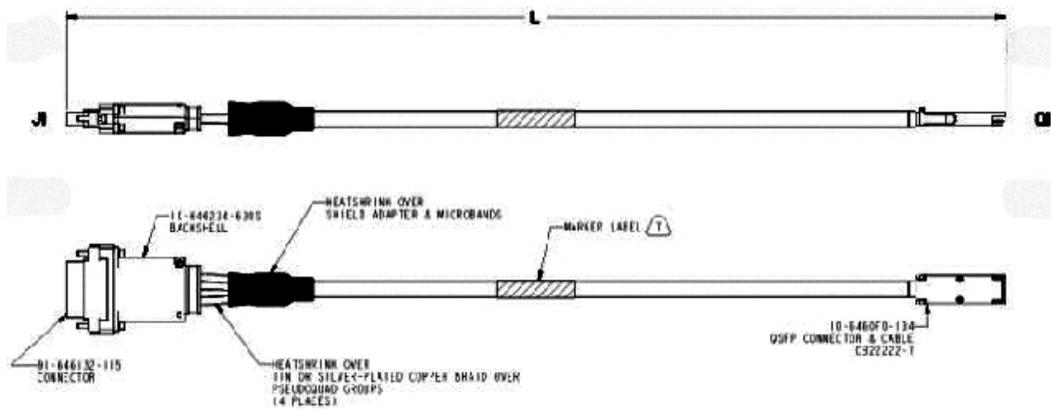
CA-628485-G56



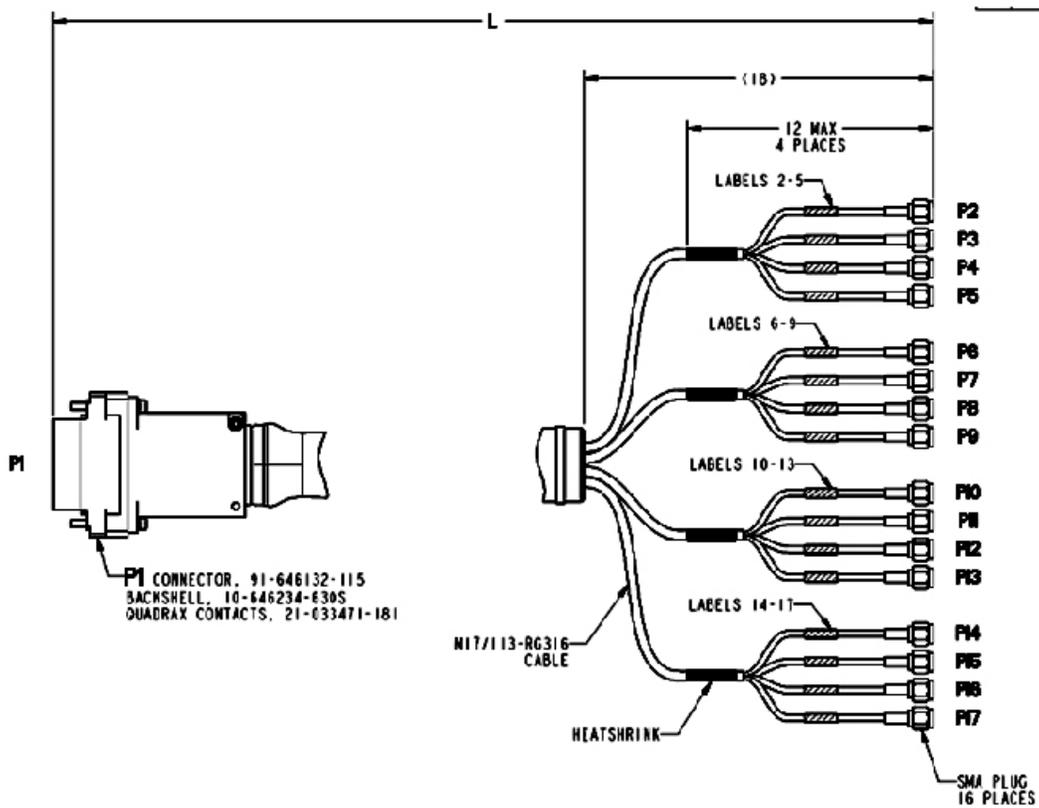
CA-628485-G77



CA-628485-H4X



CA-628485-H5X



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