

Envirotec™ Series

CT10309

The Envirotec series of connectors are designed for harsh environments where dependability is critical. Originally designed for the Geophysical Industry, Envirotec uses high impact glass-filled Nylon and Military-derived connector hardware that enable it to withstand extreme levels of punishment.



Technical Features

Mechanical

Durability: 500 mating cycles

Material

Shell: Aluminum alloy

Finish: Hard anodized (non-conductive); Nickel (conductive)

Insert: Neoprene elastomer

Contacts: Copper alloy with gold plating

Housing: High impact glass-filled Nylon

Coupling ring seal: Teflon over silicone

Electrical

Insulation resistance: 5000 Mohm

Dielectric withstanding voltage: 2300V

Contact resistance: 3 mohm

Current rating per contact: Size 16 = 13 A / 20 = 7.5 A

Cable acceptance

Cable diameters up to 0.71 inches (consult factory)

Environmental

Working temperature: -55C to +125C

Sealing: IP68

- > New Flex and Dome cable fittings expand allowable cable OD to .71"
- > Shells in aluminum with available hard anodized and Nickel plating
- > Housings made of high impact glass-filled Nylon
- > Several contact layouts available
- > Submersible to 15m at 120 hours
- > Exclusive anti-seize coupling ring with Teflon
- > Standard (STD) bend restrictor allows up to .44" cable entry
- > Shielded versions available

Product Series

ET - Standard Shell

ETR - Ruggedized Shell (sizes 16, 20 only)

ETNZ - Shielded

Shell Size (10, 12, 14, 16, 18, 20, 22)

Insert Arrangement (see Table I)

Contact Type (P = Pin, S = Socket)

Orientation (omit for Normal)

Envirotec Color (BK = Black, MK = Mink, RD = Red, BL = Blue)

Cable Entry (in 0.001 inches for STD bend restrictor; FSR = Flex

ETR 16 - 8 P BK FSR

DSR = Dome

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Envirotec™ Series

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DSR



STD



FSR

Part No	Dimension Variable			Cable Entry			
				Standard		FSR / DSR	
	A	B	C	Min	Max	Min	Max
ET-10	24.9	51.2	104.5	4.6	5.1	2.0	6.6
ET-12	27.9	51.2	103.7	5.0	8.1	2.0	9.9
ET-14	33.0	57.6	110.8	5.6	11.2	4.8	14.0
ET-16	36.2	63.9	122.2	5.6	14.2	4.8	14.0
ET-18	36.2	63.9	122.2	5.8	11.2	8.9	18.0
ET-20	43.7	108.4	197.1	5.8	11.2	8.9	18.0
ET-22	48.8	91.4	184.1	5.8	11.2	8.9	18.0
ETR-16	41.9	83.4	172.0	5.8	11.2	8.9	18.0
ETR-20	47.0	91.4	184.2	5.8	11.2	8.9	18.0

Dimensions in mm

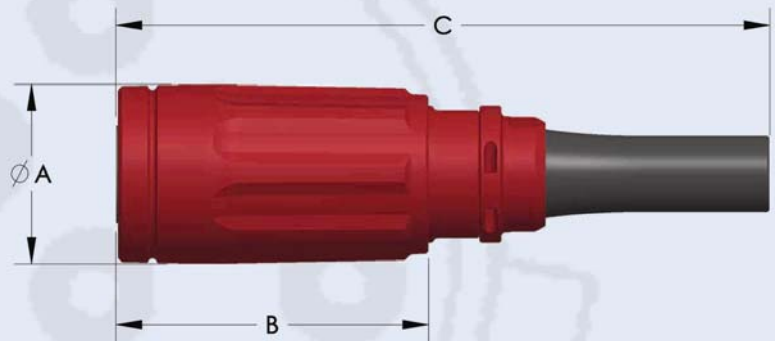


Table I

10	12	14	16	18	20	20	22
6 6 Ø 1 (# 20)	3 3 Ø 1.6 (# 16)	5 5 Ø 1.6 (# 16)	8 8 Ø 1.6 (# 16)	11 11 Ø 1.6 (# 16)	16 16 Ø 1.6 (# 16)	24 24 Ø 1 (# 20)	21 21 Ø 1.6 (# 16)
7 7 Ø 1 (# 20)	8 8 Ø 1 (# 20)	12 8 Ø 1 (# 20) 4 Ø 1.6 (# 16)	23 22 Ø 1 (# 20) 1 Ø 1.6 (# 16)	32 32 Ø 1 (# 20)	39 37 Ø 1 (# 20) 2 Ø 1.6 (# 16)	25 25 Ø 1 (# 20)	36 36 Ø 1 (# 20)
98 6 Ø 1 (# 20)	2 2 Ø 1.6 (# 16)	18 18 Ø 1 (# 20)	26 26 Ø 1 (# 20)	30 29 Ø 1 (# 20) 1 Ø 1.6 (# 16)	41 41 Ø 1 (# 20)	27 27 Ø 1 (# 20)	55 55 Ø 1 (# 20)
	14 14 Ø 1 (# 20)	19 19 Ø 1 (# 20)					32 32 Ø 1 (# 20)
							34 34 Ø 1 (# 20)

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