

## Serie 1051 A004-HD Pro+ Triaxial connectors

## Technical Specification

REQUIREMENT		DETAIL
<b>Material and Surface Treatments</b>		
Materials	Housings: Housing accessories: Inner contact: Crimp and Ground contacts: Insulators: Washers: O-ring seals: Cable seal and protections:	Brass, Steel, PA Brass Bronze Brass POM, PP-H, PEI PEEK, PET NBR, NBR Low Temp TPE
Finish	Housings and accessories, Ground contact: Center contacts:	Nickel Gold over Nickel
<b>Electrical</b>	<b>Typical values</b>	<b>Norm</b>
Nominal Impedance	75 ohms	
Test Voltage @ Sea Level (mated)	1.7 kVAC	Center to Outer Contact
	1.0 kVAC	Outer to Ground Contact
Current Rating per Contact	14 A	IEC60512-3, Test 5b
Contact Resistance	< 3 milliohms	Center Contact
	< 0.5 milliohms	Outer Contact
	< 5 milliohms	Ground Contact
Insulation Resistance	> 10 <sup>10</sup> ohms	IEC60512-2, Test 3a, Method c
VSWR (Voltage Standing Wave Ratio)	< 1.05	0 to 250 MHz
	< 1.2	250 to 1300 MHz
<b>Mechanical</b>	<b>Typical values</b>	<b>Norm</b>
Connector Durability	10000 mating cycles	
Mating and Unmating Force	50 N	IEC60512-7, Test 13a
Retention Force of Locking Mechanism	> 1500 N	IEC60512-7, Test 13a
Cable Retention Force <sup>1)</sup> : Force applied for 1 minute	> 500 N for Ø11.9 mm cable	IEC 60512-9, Test 17c
Force applied for 1 hour:	> 150 N for Ø11.9 mm cable	MIL-STD-1344, Method 2009, Test cond. A
Note 1: Dependent on the type of cable.		

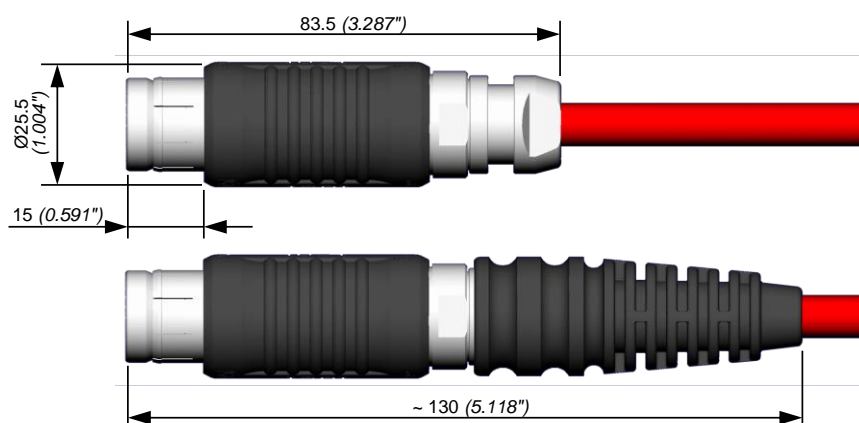
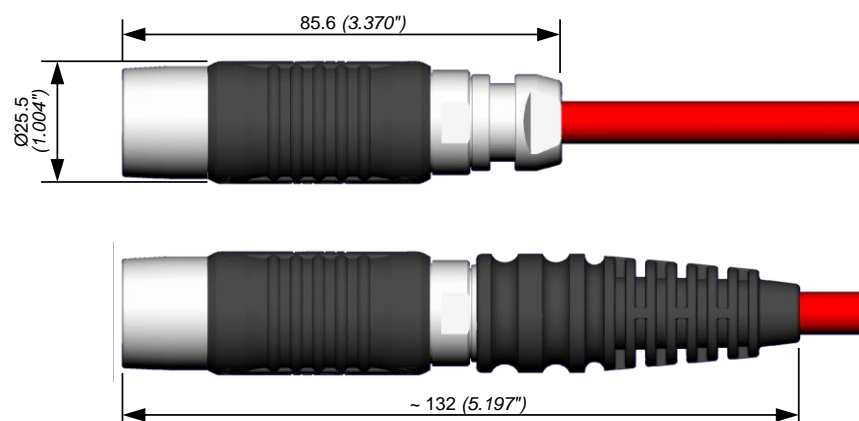
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**REQUIREMENT (cont.)**
**DETAIL**

Environmental	Typical values	Norm
Temperature Rating	-40 to +85°C	
Vibration	10 to 2000 Hz, 1.5 mm or 20 g, no discontinuity > 1 µs	MIL-STD-1344, Method 2005, Test cond. IV
Mechanical Strength Impact	Height of 2 m; 10 dropping cycles	IEC 60512-5, Method 7b
Protection Level (mated)	IP68 / 2 m / 24 h	IEC 60529
Corrosion, salt spray	96 h with 5% salt solutions at 35°C	MIL-STD-1344, Method 1001, Test cond. B

**DIMENSIONS**
**Straight plug**
**SE 1051 A004-HD Pro+**

**Cable receptacle**
**KE 1051 A004-HD Pro+**


All dimensions shown are in millimeters (*inches*) and are for reference only.

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