BEST CONTACTS FOR YOUR SUCCESS



NETWORKING COMPONENTS

COAXIAL CONNECTORS

CABLE ASSEMBLIES

PRECISION TURNED PARTS

PLASTIC INJECTION MOULD PARTS

INDUSTRIAL ELECTRONICS



^{Coax} TestLine

RF Test Cables for

- Production Line Testing
- Lab. Test and Measurement
- Field Test and Measurement

TestLine - RF Test Cables

The RF cable assemblies in the TestLine range have been specially designed for test and measurement applications, incorporating special considerations with regard to attenuation, phase-stability, and durability. The RF connectors developed and designed for these test cables involve special cable termination techniques to ensure low, stable VSWR values, and include a particularly effective cable protection against mechanical stress. In addition, the connector bodies and coupling nuts are manufactured from stainless steel, guaranteeing a high number of mating cycles. This makes the TestLine cable range particularly suitable for production-line applications, where a high number of reliable test cycles are required.

Product Features

- Frequency range: DC to18 GHz (SMA)
- High phase stability during cable flexing
- · Return loss stability during cable flexing
- · Low return loss and insertion loss
- Specially developed precision connectors
- High number of mating cycles
- 100% tested



Return Loss TestLine Cables up to 18 GHz stimulus value 1,118 GHz -35,590 dB 2,000 GHz -34,745 dB 3,901 GHz -30,583 dB 6,012 GHz -31,684 dB 4 8.032 GHz -28.764 dB 10.187 GHz -28,479 dB 6 12,118 GHz -29,762 dB 17,776 GHz -25,580 dB

Mechanical Characteristics	
Cable bending radius	>30 mm
Cable sheath	FEP, Ø 5,4 mm
Connector centre contact	CuZn39Pb3, gold-plated
Connector outer contact	stainless steel
Coupling nut	stainless steel
Electrical Characteristics	
Impedance	50 Ω
Frequency range	SMA: <18 GHz; N: <11 GHz
Return loss (typical)	up to 4 GHz: -28 dB up to 10 GHz: -26 dB up to 18 GHz: -23 dB
Max. cable attenuation (@ 18 GHz)	1,0 dB/m
Phase stability (measured after 90° bend)	<0,5° @ DC - 4 GHz <1,5° @ 4 GHz - 18 GHz
Amplitude stability	<0,03 dB @ DC - 4 GHz <0,03 dB @ 4 GHz - 18 GHz
Screen effectiveness (at 1 GHz)	-110 dB max.
Environment	

Operating temperature-55° C bis 110° CRoHS conformity2002/95EC



TestLine cables can be supplied in customized lengths or in standard length of 600 mm.

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