

**IMS Product Specification/ Product Data Sheet**

<b>Part Number</b>	<b>7842.NEX.1410.075</b>	<b>Teilenummer</b>
<b>Description</b>	<b>NEX10 cable plug</b>	<b>Beschreibung</b>
		
<b>Design according to</b>	<b>RT-NEX10</b>	<b>Ausführung nach</b>

**Electrical characteristics / Elektrische Eigenschaften**

		colored value means: under validation			
		Value/Wert	Unit/ Einheit		
Impedance (MIL-C-39012B)		50	[Ω]	Impedanz (MIL-C-39012B)	
Operating frequency up to		...10	[GHz]	Betriebsfrequenz bis zu	
Return loss	measured with cable type:			gemessen mit Kabel Type:	Rückflussdämpfung
	@ DC to 2 GHz	≥30	[dB]		
	@ 2 to 4 GHz	≥30	[dB]		
	@ 4 to 6 GHz	≥28	[dB]		
Insertion loss		≤0.05 x √f[GHz]	[dB]		
3rd. Order PIM product 2x43dBm	at 910MHz/at 1870MHz	≥160	[dBc]	PIM Produkt 3. Ordnung	
Insulation resistance		≥5	[GΩ]	Isolationswiderstand	
Contact resistance				Kontakt-Widerstand	
Centre contact		≤1.5	[mΩ]	Innenkontakt	
Outer contact		≤1.5	[mΩ]	Außenkontakt	
Working voltage	max.	500	[V] eff	Spannung	
Test voltage	min.	1000	[V] eff	Prüfspannung	

**Mechanical characteristics / Mechanische Eigenschaften**

		Value/ Wert	Unit/ Einheit		
Mating cycles		≥100		Steckzyklen	
Retention force of coupling mecha.		>500	[N]	Haltekraft für Kupplungsmechanismus	
Recommended torque		1.5	[Nm]	Empfohlenes Anzugsmoment	
Water resistance 1)	(mated pair)			Wasserbeständigkeit (gestecktes Paar)	

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### Material & plating / Material & Oberfläche

RoHS (2011/65/EU) conform			
	Material/Material	Plating/Oberflächen	
Outer contact	Copper beryllium	Cu + 3-6µm Ag	Außenkontakt
Centre contact	Brass	Cu + 3-6µm Ag	Innenkontakt
Housing	Brass	Cu + 2-4µm CuSnZn	Crimphülse
Nut	Brass	Cu + 2-4µm CuSnZn	Mutter
Spring ring	Stainless steel	-	Federring
Insulator	PTFE	-	Isolator
Gasket	Silicone/Silikon	-	Dichtung

### Environmental influences / Umwelteinflüsse

Operating temperature range	-55°C up to +125°C	Betriebstemperaturbereich
Thermal shock	IEC 61169-1 9.4.4.	Wärme Schock
Vibration	IEC 61169-1 9.3.3 and IEC 60068-2-64	Vibration
Shock	IEC 61169-1 9.3.14	Schock
RoHS	compliant	
Solder profile		Lötprofil

### Notes / Aufzeichnungen

1) interface area only

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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