

**Product Data Sheet / Produkt Datenblatt**

<b>Part Number</b>	<b>7857.NEX.1010.085</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: SCF12-50J				gemessen mit Kabel Typ: Rückflusdämpfung
	@ DC to 2 GHz	≥32	[dB]		
	@ 2 to 4 GHz	≥30	[dB]		
	@ 4 to 6 GHz	≥26	[dB]		
Insertion loss		≤0.05x $\sqrt{f[\text{GHz}]}$	[dB]		
RF-leakage	@ DC to 6 GHz	≥110	[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
Power handling	at 2GHz and 85°C	100	[W] DC		Belastbarkeit
	at 2GHz and 105°C	50	[W] DC		
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)	IP68 24h/1m		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 CuZnSn	Crimphülse
Nut	Brass	Cu + 2-4µm CuZnSn	Mutter
Spring ring	Stainless steel	-	Federring
Insulator	PTFE	-	Isolator
Gasket	Silicone/Silikon	-	Dichtung
Cap	PVC	-	

### Environmental influences

### Umwelteinflüsse

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