

# COAXIAL CONNECTOR, SMPM, 50 Ohm, Straight cable jack (female)

## 21\_SMPM-50-1-1/11\_N

### Properties

- Best performance-to-price ratio
- Excellent RF performance up to 65 GHz
- Small size, compact form factor
- Snap-on coupling mechanism with full detent and smooth bore
- Board-to-board solutions with bullets for axial and radial float



### Product configuration

Interface type	Gender	Standard
SMPM	jack	MIL-STD-348B

### Interface and material data

Piece parts	Material	Plating
Centre contact	Copper Beryllium Alloy	SUCOPRO Plating
Outer conductor	Copper Beryllium Alloy	SUCOPRO Plating
Insulator	PTFE (Polytetrafluoroethylene)	

### Electrical data

Impedance	50 Ω
Interface frequency	65 GHz

### Electrical Data (frequency related)

Frequency range	Return loss	VSWR
0 GHz ... 18 GHz	26 dB	1.11
18 GHz ... 50 GHz	20 dB	1.22
50 GHz ... 65 GHz	14 dB	1.50

### Mechanical data

Weight	0.25 g
Mating cycles	500
Cable entry centre contact	plugged
Cable entry outer contact	soldered

### Engagement / Disengagement force

	Engagement	Engagement	Disengagement	Disengagement
Interface class	Full detent	Smooth bore	Full detent	Smooth bore

**COAXIAL CONNECTOR, SMPM, 50 Ohm, Straight cable jack (female)**

21\_SMPM-50-1-1/111\_N

**Engagement / Disengagement force**

	Engagement	Engagement	Disengagement	Disengagement
Interface force typical	20 N	11 N	29 N	6.7 N

Interface class The force is determined by the counterpart

Interface force typical

**Environmental data**

Operation temperature	-65 °C ... 165 °C
-----------------------	-------------------

**Material compliance**

Item number	Directive / Regulation	Rating	Exemptions / Details
85224724	RoHS 2011/65/EU and (EU) 2015/863	Compliant with exemption	6c
	REACH 1907/2006 Article 33 SVHC	Contains one or more SVHC >0,1%	CAS: 7439-92-1 Lead
85274825	RoHS 2011/65/EU and (EU) 2015/863	Compliant with exemption	6c
	REACH 1907/2006 Article 33 SVHC	Contains one or more SVHC >0,1%	CAS: 7439-92-1 Lead

**Ordering Information Table**

Item number	Item description	Packaging type
85224724	21_SMPM-50-1-1/111_NE	Single
85274825	21_SMPM-50-1-1/111_NH	Bulk 100 pcs

**Suitable cables**

Cable group	Y8 - 1 mm / 50 Ohm Y2 - 1 mm / 50 Ohm Y15 - 1 mm / 50 Ohm
Suitable cables	SUCOFORM_47 CU SR_47_LA_TP-01 SR_47_CU_TP

**Additional Information**

Remarks	The values provided are typical and may vary depending on factors such as the mating connector, cable type, and assembly condition. Mating force and mating cycles are determined by the mating connector (full detent or smooth bore). Mating cycles: full detent: 100 smooth bore: 500
Only as assembly	No

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.  
DOCUMENT PIM-P61172 / Date of publication: 05.12.2025 / uncontrolled copy