

## MXPM90: Multicoax Cable Assemblies

Rev. A

### Description

#### Available configurations

- MXPM breakout to PC 1.0 male
- MXPM breakout to PC 1.0 female
- MXPM jumper
- MXPM loopback
- Customised solutions (configuration and length) on request

#### Standard lengths

102 mm (4 in.), 152 mm (6 in.)

#### Channel arrays

- 1x8 ganged
- 2x8 ganged

#### Interface standards

- MXPM: HUBER+SUHNER STD (patent US 8,360,807 and pat. pend.)
- PC 1.0: 1.0 mm IEEE STD 287™-2007 (annex J)

#### Notification

- Exclusively delivered with thin, highly flexible and ultra-stable HUBER+SUHNER Multiflex 53-02 microwave cable.



### Technical Data

#### Electrical Data

Impedance	50 Ω
Interface frequency max.	90 GHz
Return loss (typical)	DC – 50 GHz, ≥ 20 dB / 50 – 90 GHz, ≥ 15 dB (Gated measurement: Cable connector/PCB transition)
Insertion loss (typical)	See Multiflex_53-02 cable
Phase match (standard)	+/- 1 ps

#### Mechanical Data

Number of matings	MXPM: 500 / PC 1.0: 100
Pitch centre-to-centre	2.54 mm (0.1 in.)

#### Environmental Data

Operating temperature	0 °C to +85 °C
2011/65/EU (RoHS)	Compliant
2006/1907/EC (REACH)	Compliant

#### Material Data

Piece Parts	Material	Surface Plating
<b>Interface – MXPM</b>		
Centre contact	Copper beryllium alloy	SUCOPRO gold plating
Outer contact	Copper beryllium alloy	SUCOPRO gold plating
Body	Aluminium	Black/gold anodised
Isolator	PEEK	N/A
Other parts	Neodym (magnets)	N/A
<b>Interface – PC 1.0</b>		
Centre contact	Copper beryllium alloy	Gold plating without nickel underplating
Outer contact	Copper beryllium alloy	Gold plating without nickel underplating
Body	Copper beryllium alloy	Gold plating without nickel underplating
Isolator	PEEK	N/A
Coupling nut (male)	Stainless steel	Passivated
Other parts	Stainless steel (cable entry)	Passivated

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, ISO/TS 16949 und IRIS

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