

Technical Data Sheet

Rosenberger

4.3-10
7-16

Ruggedized & Torsion Proof High-
Performance PIM Test Cable

IM-CABLE-XXXX

XXXX = CONNECTOR TYPE AND
LENGTH

Part number example

IM-Cable-4310m-4310m-3000
(4.3-10 male on both ends, Length 3.0 m)
IM-Cable-716m-4310m-3000
(7-16 and 4.3-10 male, Length 3.0 m)
IM-Cable-716m-716m-3000
(7-16 male on both ends, Length 3.0 m)



Interface (depending on Model)

4.3-10 connectors according to IEC 61169-54
7-16 connectors according to IEC 60169-4,
VG 95250,
EN 122190,
DIN 47223

Electrical data

Impedance	50 Ω	Picture for reference only
Velocity Factor	80%	
Return loss		
1.0 GHz, 2.0 GHz	≤ -30dB, ≤ -27dB	
3.0 GHz, 4.0 GHz	≤ -24dB, ≤ -21dB	
Insertion loss (max. at 25 °C, length 3m)		
1.0 GHz, 2.0 GHz	0.7dB, 1.09dB	
3.0 GHz, 4.0 GHz	1.36dB, 1.59dB	
Power handling (max. at 40 °C, sea level)	100W at 4.0GHz	
Intermodulation (3 rd order)	≤ -168dBc (typ. ≤ -173dBc) @ 2 x 43dBm	

Mechanical data

Length	See part number (4 digits at the end) ± 30 mm
Minimum Bending Radius	dynamic: 120mm 50times: 90mm
Coupling Nut Flat Size	4.3-10: 22mm, 7-16: 32mm
Recommended Torque	4.3-10: 5Nm, 7-16: 25Nm
Material	
Connector	Stainless Steel, Brass
Jacket	Armour: Galvanized steel wire, Al, Copper (EN 50086-2-3) Braid hose: Halogen-free polypropylene



Environmental data

Temperature range	
Usage	-10°C to +55°C
Storage	-40°C to +85°C
Relative Humidity	0 to 95%
RoHS / REACH	compliant

Weight

Weight ≤ 1200 g (7-16, 3.0m)
All dimensions are in mm; tolerances according to ISO 2768 m-H

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.

Draft	Date	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
Maier A.	2019-06-03			2019-06-03	100	19-v002	Maier A.	2019-06-03
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