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ISSUE

10/06/14

SERIES **TestPro 2**

PART NUMBER

na

All dimensions are in mm / Toutes les dimensions sont indiquées en mm



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Available interfaces	Drawing (Stainless steel connector)	Torque Wrench	V.S.WR.	Max Freq.	Phase Stability vs. Bending ⁽¹⁾	Amplitude Stability vs bending ⁽²⁾	Cable Typical insertion loss	Power ⁽³⁾
2.4 mm Male		90 N.cm	1.33 : 1 Typ. 1.43 : 1 Max	50 GHz	± 6.00° Typ. ± 11.8° Max	± 0.04 dB Typ. ± 0.08 dB Max	4.99 dB/m 1.52 dB/ft	30 W
2.4 mm Female		na	1.33 : 1 Typ. 1.43 : 1 Max	50 GHz	± 6.00° Typ. ± 11.8° Max	± 0.04 dB Typ. ± 0.08 dB Max	4.99 dB/m 1.52 dB/ft	30 W
1.85 mm Male		90 N.cm	1.40 : 1 Typ. 1.50 : 1 Max	67 GHz	± 8.00° Typ. ± 15.6° Max	± 0.05 dB Typ. ± 0.10 dB Max	5.92 dB/m 1.80 dB/ft	25 W
1.85 mm Female		na	1.40 : 1 Typ. 1.50 : 1 Max	67 GHz	± 8.00° Typ. ± 15.6° Max	± 0.05 dB Typ. ± 0.10 dB Max	5.92 dB/m 1.80 dB/ft	25 W

(1) according to IEC966-1 section 8.6, bending method n°1

(2) according to IEC966-1 section 8.4 (1 turn/clockwise)

(3) CW max power calculated at sea level / 40°C and VSWR 1:1

ELECTRICAL CHARACTERISTICS / Caractéristiques électriques

Characteristic impedance / Impédance caractéristique	50 ±1 Ohms
Phase stability vs. Temp. / Stabilité de phase en température	< 4 °/m/GHz (-55 / +125°C)
Velocity propagation / Vitesse de propagation	76% nominal
Shielding effectiveness / Efficacité de blindage	> 90 dB (DC - 18GHz)
Time delay (nominal) / Temps de propagation	4.4 ns/m 1.3 ns/ft

MECHANICAL CHARACTERISTICS / Caractéristiques mécaniques

Cable Outer diameter / Diamètre extérieur :	6.20 mm Nominal 0.244 inch
Marking / Marquage	Freq. Range / serial number. White marking on black heatshrink sleeves
Static bending radius / Rayon de courbure statique	25 mm 1 inch
Dynamic bending radius / Rayon de courbure dynamique	50 mm 2 inch
Life (Connectors) / Nbre de manœuvre connecteurs	5 000 Cycles
Cable crush resistance / Résistance à l'écrasement	4 400 N/100mm 254 lb/inch
Cable flex life ⁽⁴⁾ / Flexibilité câble	>20 000 flexures

(4) according to IEC 966-1 section 9.3

ENVIRONMENTAL CHARACTERISTICS / Caractéristiques environnementales :

Temperature range / Gamme de température	-55°C to +125°C
Fire resistance / résistance à la flamme	Yes MIL-C-87104
Abrasion resistance / résistance à l'abrasion	Yes SAE AS5756
RoHS / REACH	Yes

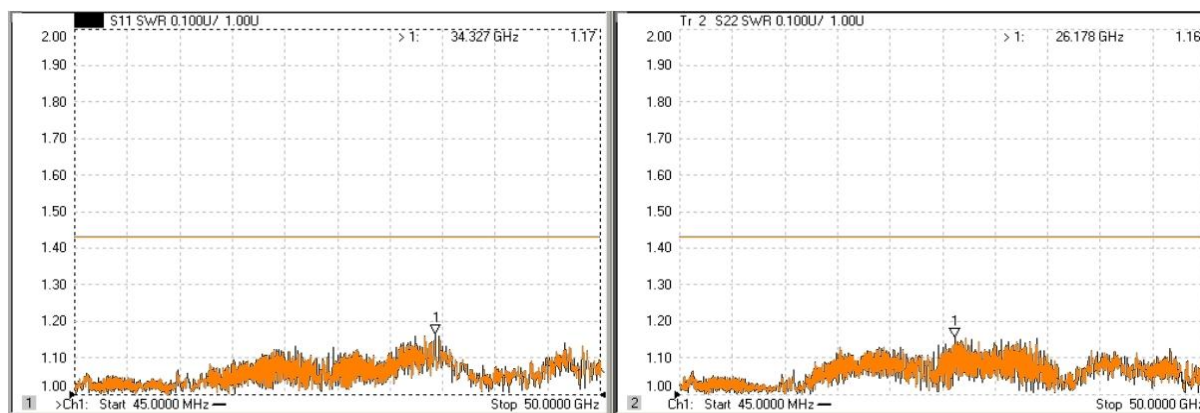
CABLE ASSEMBLY CONFIGURATIONS / Configurations standards

Part number	Operating frequency	Connectors		Length	Attenuation-Nom @Max F(GHz)	VSWR-Nom @Max F(GHz)
2001441440610TF	DC - 50 GHz	2.4 mm male	2.4 mm male	24 in.	4.09 dB	1.33
2001441450610TF	DC - 50 GHz	2.4 mm male	2.4 mm female	24 in.	4.09 dB	1.33
2001441440914TF	DC - 50 GHz	2.4 mm male	2.4 mm male	36 in.	5.87 dB	1.33
2001441450914TF	DC - 50 GHz	2.4 mm male	2.4 mm female	36 in.	5.87 dB	1.33
2001441441220TF	DC - 50 GHz	2.4 mm male	2.4 mm male	48 in.	7.66 dB	1.33
2001441451220TF	DC - 50 GHz	2.4 mm male	2.4 mm female	48 in.	7.66 dB	1.33
2001441441524TF	DC - 50 GHz	2.4 mm male	2.4 mm male	60 in.	9.45 dB	1.33
2001441451524TF	DC - 50 GHz	2.4 mm male	2.4 mm female	60 in.	9.45 dB	1.33
TBD	DC - 67 GHz	1.85 mm male	1.85 mm male	24 in.	4.80 dB	1.40
TBD	DC - 67 GHz	1.85 mm male	1.85 mm female	24 in.	4.80 dB	1.40
TBD	DC - 67 GHz	1.85 mm male	1.85 mm male	36 in.	6.92 dB	1.40
TBD	DC - 67 GHz	1.85 mm male	1.85 mm female	36 in.	6.92 dB	1.40
TBD	DC - 67 GHz	1.85 mm male	1.85 mm male	48 in.	9.04 dB	1.40
TBD	DC - 67 GHz	1.85 mm male	1.85 mm female	48 in.	9.04 dB	1.40
TBD	DC - 67 GHz	1.85 mm male	1.85 mm male	60 in.	11.16 dB	1.40
TBD	DC - 67 GHz	1.85 mm male	1.85 mm female	60 in.	11.16 dB	1.40

Custom length and connector configuration upon request.

All TestPro cable assemblies are delivered in individual packaging with attached test report.
1.85 mm connectors available 2015

TESTPRO 3 (36in.) TYPICAL VSWR / VSWR Typique



TESTPRO 2 (36in.) TYPICAL INSERTION LOSS / Pertes d'insertion typiques

