Radiall

Technical Data Sheet
Test and Measurement cable assemblies

PAGE 1/2	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.W.R.	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

Caracteristic 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		
Sheilding 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 / *resistance à la flamme*	**Yes**	MIL-C-87104
Abrasion resistance / *résistance à l'abrasion*	**Yes**	SAE AS5756
RoHS / REACH	**Yes**	

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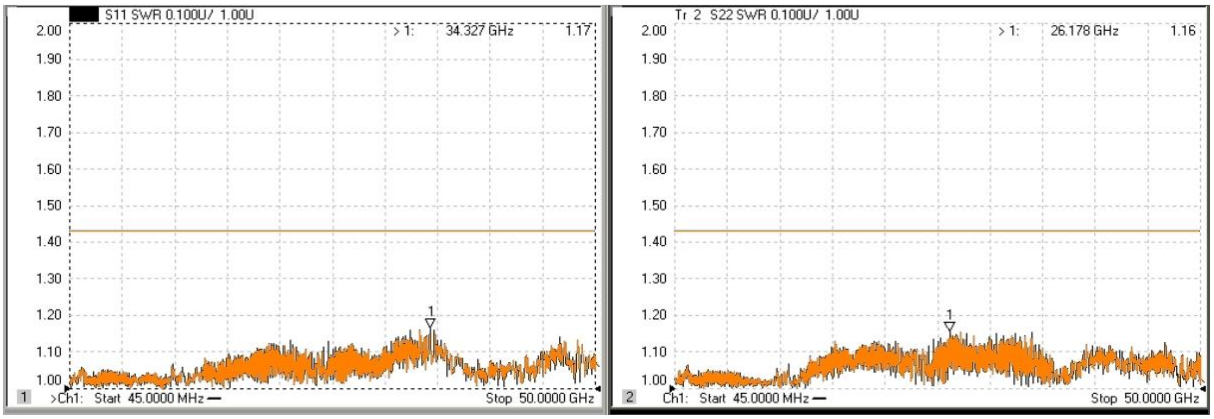
CABLE ASSEMBLY CONFIGURATIONS / Configurations standards

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