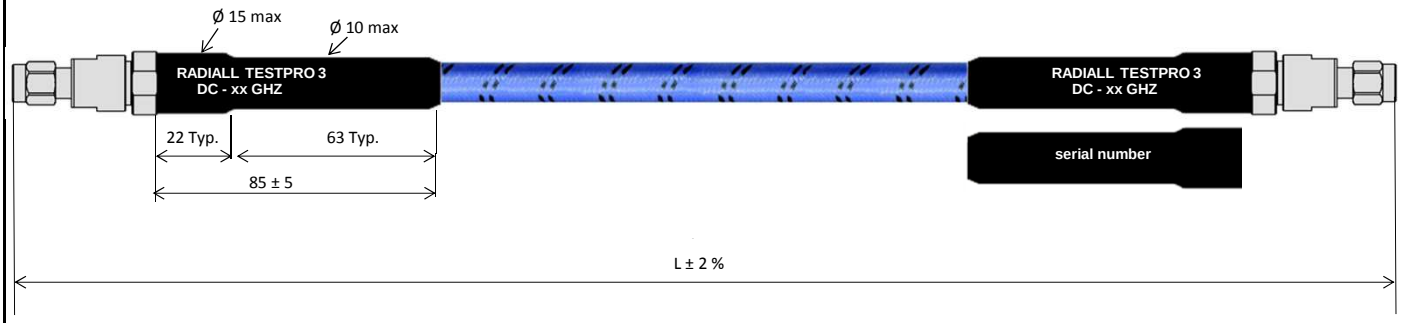
Radiall www.radiall.com	**TECHNICAL DATA SHEET** *Fiche technique* **CABLE ASSEMBLY** *cordon*	**SERIES** *Référence* **ISSUE :** *Edition* **DATE :** *Date*
		TESTPRO 3 **Standard CASSY** **A01** **31/01/2014**

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



Available interfaces	Drawing (Stainless steel passivated)	Torque Wrench	V.S.WR.	Max Freq.	Phase Stability vs. Bending (1)	Amplitude Stability vs bending (2)	Cable Typical insertion loss	CW Max Power
Precision N Type male		135 N.cm	1.25 : 1 Typ. 1.30 : 1 Max	18 GHz	± 2.0°Typ. ± 4.5°Max	± 0.02 dB Typ. ± 0.04 dB Max	1.91 dB/m 0.58 dB/ft	90 W
SMA3.5 Male		110 N.cm	1.27 : 1 Typ. 1.35 : 1 Max	26.5 GHz	± 3.5°Typ. ± 7.0°Max	± 0.02 dB Typ. ± 0.04 dB Max	2.41 dB/m 0.73 dB/ft	80 W
SMA3.5 Female		NA	1.27 : 1 Typ. 1.35 : 1 Max	26.5 GHz	± 3.5°Typ. ± 7.0°Max	± 0.02 dB Typ. ± 0.04 dB Max	2.41 dB/m 0.73 dB/ft	80 W
SMA2.9 Male		110 N.cm	1.35 : 1 Typ. 1.40 : 1 Max	40 GHz	± 5.0°Typ. ± 9.5°Max	± 0.05 dB Typ. ± 0.10 dB Max	3.11 dB/m 0.94 dB/ft	60 W
SMA2.9 Female		NA	1.35 : 1 Typ. 1.40 : 1 Max	40 GHz	± 5.0°Typ. ± 9.5°Max	± 0.05 dB Typ. ± 0.10 dB Max	3.11 dB/m 0.94 dB/ft	60 W
2.4mm Male (3)		90 N.cm	1.35 : 1 Typ. 1.45 : 1 Max	40 GHz (3)	± 5.0°Typ. ± 9.5°Max	± 0.05 dB Typ. ± 0.10 dB Max	3.11 dB/m 0.94 dB/ft	50 W
2.4mm Female (3)		NA	1.35 : 1 Typ. 1.45 : 1 Max	40 GHz (3)	± 5.0°Typ. ± 9.5°Max	± 0.05 dB Typ. ± 0.10 dB Max	3.11 dB/m 0.94 dB/ft	50 W

MND VNA port connector also available. Please consult us

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

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

(3) limited to 40GHz due to cable. For 50GHz cable assembly please select TestPro 2

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 :	**7.04**	mm Nominal	**0.277**	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 per MIL-C-87104**
Abrasion resistance */ résistance à l'abrasion*	**Yes per SAE AS5756**
RoHS / REACH	**Yes**

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SERIES *Référence*: **TESTPRO 3** / **Standard CASSY**
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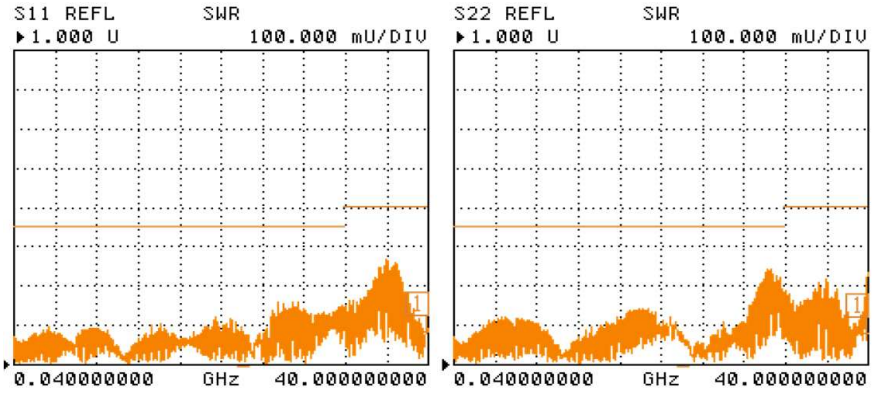
MOST COMMON CABLE ASSEMBLY CONFIGURATIONS / Configurations standards

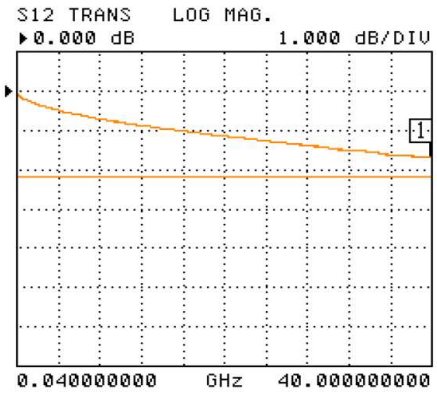
Part number	Operating frequency	Connectors		Length	Attenuation-Nom @2GHz - @Max F(GHz)	VSWR-Nom @Max F(GHz)
1801211210610GX	DC - 18 GHz	N Type male	N Type male	24 in. / 61 cm	0.48 dB - 1.40 dB	1.25
1801211210914GX	DC - 18 GHz	N Type male	N Type male	36 in. / 91 cm	0.65 dB - 1.94 dB	1.25
1801211211219GX	DC - 18 GHz	N Type male	N Type male	48 in. / 122 cm	0.82 dB - 2.48 dB	1.25
1801211211829GX	DC - 18 GHz	N Type male	N Type male	72 in. / 183 cm	1.16 dB - 3.56 dB	1.25
1801171170610KE	DC - 26.5 GHz	SMA 3.5 male	SMA 3.5 male	24 in. / 61 cm	0.47 dB - 1.72 dB	1.27
1801171180610KE	DC - 26.5 GHz	SMA 3.5 male	SMA 3.5 female	24 in. / 61 cm	0.47 dB - 1.72 dB	1.27
1801171170914KE	DC - 26.5 GHz	SMA 3.5 male	SMA 3.5 male	36 in. / 91 cm	0.64 dB - 2.39 dB	1.27
1801171180914KE	DC - 26.5 GHz	SMA 3.5 male	SMA 3.5 female	36 in. / 91 cm	0.64 dB - 2.39 dB	1.27
1801171171219KE	DC - 26.5 GHz	SMA 3.5 male	SMA 3.5 male	48 in. / 122 cm	0.80 dB - 3.05 dB	1.27
1801171181219KE	DC - 26.5 GHz	SMA 3.5 male	SMA 3.5 female	48 in. / 122 cm	0.80 dB - 3.05 dB	1.27
1801171171829KE	DC - 26.5 GHz	SMA 3.5 male	SMA 3.5 male	72 in. / 183 cm	1.14 dB - 4.39 dB	1.27
1801171181829KE	DC - 26.5 GHz	SMA 3.5 male	SMA 3.5 female	72 in. / 183 cm	1.14 dB - 4.39 dB	1.27
1800920920610PJ	DC - 40 GHz	SMA 2.9 male	SMA 2.9 male	24 in. / 61 cm	0.47 dB - 2.15 dB	1.35
1800920930610PJ	DC - 40 GHz	SMA 2.9 male	SMA 2.9 female	24 in. / 61 cm	0.47 dB - 2.15 dB	1.35
1800920920914PJ	DC - 40 GHz	SMA 2.9 male	SMA 2.9 male	36 in. / 91 cm	0.64 dB - 2.99 dB	1.35
1800920930914PJ	DC - 40 GHz	SMA 2.9 male	SMA 2.9 female	36 in. / 91 cm	0.64 dB - 2.99 dB	1.35
1800920921219PJ	DC - 40 GHz	SMA 2.9 male	SMA 2.9 male	48 in. / 122 cm	0.80 dB - 3.83 dB	1.35
1800920931219PJ	DC - 40 GHz	SMA 2.9 male	SMA 2.9 female	48 in. / 122 cm	0.80 dB - 3.83 dB	1.35
1800920921829PJ	DC - 40 GHz	SMA 2.9 male	SMA 2.9 male	72 in. / 183 cm	1.14 dB - 5.51 dB	1.35
1800920931829PJ	DC - 40 GHz	SMA 2.9 male	SMA 2.9 female	72 in. / 183 cm	1.14 dB - 5.51 dB	1.35
1801411170610KE	DC - 26.5 GHz	2.4mm Male	SMA 3.5 male	24 in. / 61 cm	0.47 dB - 1.72 dB	1.27
1801411170914KE	DC - 26.5 GHz	2.4mm Male	SMA 3.5 male	36 in. / 91 cm	0.64 dB - 2.39 dB	1.27
1801411171219KE	DC - 26.5 GHz	2.4mm Male	SMA 3.5 male	48 in. / 122 cm	0.80 dB - 3.05 dB	1.27
1801411171829KE	DC - 26.5 GHz	2.4mm Male	SMA 3.5 male	72 in. / 183 cm	1.14 dB - 4.39 dB	1.27
1801410920610PJ	DC - 40 GHz	2.4mm Male	SMA 2.9 male	24 in. / 61 cm	0.47 dB - 2.15 dB	1.35
1801410920914PJ	DC - 40 GHz	2.4mm Male	SMA 2.9 male	36 in. / 91 cm	0.64 dB - 2.99 dB	1.35
1801410921219PJ	DC - 40 GHz	2.4mm Male	SMA 2.9 male	48 in. / 122 cm	0.80 dB - 3.83 dB	1.35
1801410921829PJ	DC - 40 GHz	2.4mm Male	SMA 2.9 male	72 in. / 183 cm	1.14 dB - 5.51 dB	1.35

Custom length and connector configuration upon request.
All TestPro cable assemblies are delivered in individual packaging with attached test report.

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



TESTPRO 3 (36in.) TYPICAL INSERTION LOSS / Pertes d'insertion typiques



Australian Representatives
ROJONE, PTY LTD.
Tel: 02 9829 1555
E: sales@rojone.com.au
www.rojone.com.au