INTERCONNECT SOLUTIONS



Insulated Wire

Founded in 1970, IW developed a unique PTFE lamination process and applied it to manufacturing wire and cable. This process allowed IW to manufacture products of unprecedented reliability along with smaller diameters, from .050" to 0.500".

www.iw-microwave.com

- Phase matching, amplitude matching, and time delay measurements up to 67 GHz are available when required.
- All assemblies are tested for VSWR and insertion loss before leaving the factory
- High Power cables:

2801 - up to 1.9KW (c.w) @ 2 GHz

4806 - up to 3.2KW (c.w) @ 1 GHz

customer proven to 15KW at 13.56MHz

7506 - theoretical 5KW (c.w) @ 1 GHz

- 75ohm cables: 2801/75, 1801/75, 1151/75
- Low loss phase stable dielectric: 1571 cable 64dB/100ft. @ 40 GHz 4dB/100ft. less than Micro Coax

CHOOSE YOUR CONNECTOR												
Cable Series	Frequency (GHz)											
	4	11	18	26.5	32	40	50	65	70			
115	GPO/GPPO, 1.8	85mm (V™),	2.4mm, 2.92mı	ຠ (K™)								
125	GPO/GPPO, 1.8	85mm (V™)										
140	2.4mm											
150	SMA, TNCA, N	, 3.5, 2.4, 2.92	2mm (K™)									
160	N, SMA, TNCA	, SMP, K TM										
170	2.92mm (K™)											
180	N, SMA, TNCA	, 3.5mm, 2.92	2mm (K™)									
230	N, SMA, TNCA	, SC, 3.5mm										
280	N, SMA, TNCA	, SC										
480	N, 7/16, SC&C											
RF047	SMA, 2.92mm	(K™), 2.4mm	n, 1.85mm (V™)	, GPO/GPPC)							
RF085	Industry Stand	dard 085 SR	Connectors									
RF141	Industry Stand	dard 141 SR C	Connectors									
RF250	SMA, TNC, N, S	SC SC										
RF250	SMA, TNC, N, S	SC										



Connector types listed are preferred matching for referenced cables. Additional connector types can be provided. Please consult factory.







CABLE ASSEMBLIES

METRIC PART NUMBER

SPR - 2301A - 300M - SPS

Connector Code

Type Code

Style Code

Note: Metric part number format is X.XX meters - 300M defines a 3m length assembly; a 10m assembly part number with the same connectors as shown above is SPR-2301A-1000M-SPS

Custom Solutions

In addition to our internally ruggedized cables, IW has a wide range of materials and processes designed to protect the integrity of our cable assemblies. These include a variety of metallic and non-metallic external sheaths to address your specific application. Please contact us for details.

- 1 ZEL Tefzel Jacket
- 2 LC Low Smoke/ Zero Halogen Polyurethane
- **3 NX** Fire resistant NOMEX* braid *Nomex is a registered trademark of the DuPont Corporation
- 4 A Interlocked stainless steel armor, crush resistant up to 400 lbs per linear inch
- 5 N Neoprene weather proof jacket
- 6 ALC Armor with extruded Polyurethane jacket

Re-Flex

To provide improved electrical and mechanical performance over traditional hand-formable designs, Insulated Wire presents $Re-Flex^{TM}$.

Both RF085 and RF141 are industry standard line sizes, consequently a wide range of connector types and styles can be used with these cables, including: SMA, TNC, N, GPOTM, GPPOTM, 2.92mm/KTM, 2.4mm and 1.85mm/VTM, with performance up to 60GHz. RF250 is commonly used for higher power applications with SMA, TNC, N, SC and HN connectors available.



Cable part numbers are TPRFEP085, TPRFEP141 and TPRFEP250.

CABLE	MAXIMUM FREQUENCY	ATTENUATION (DB/FT., MAX)				BEND RADIUS	DED! 4.656	
TYPE	(CABLE ONLY)	10 GHZ	18 GHZ	32 GHZ	60 GHZ	(INCH)	REPLACES	
RF085	62 GHz	0.60	0.91	1.28	2.01	0.125	RG405	
RF141	32 GHz	0.41	0.60	0.88	-	0.250	RG402	
RF250	19.5 GHz	0.29	0.44	-	-	0.375	RG401	

