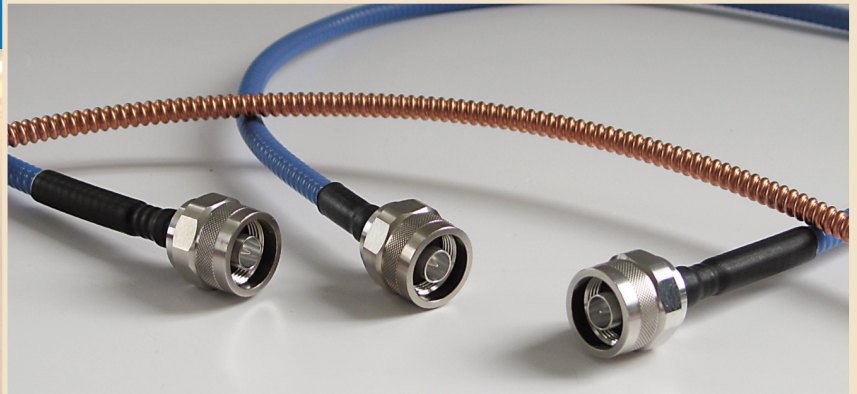


SPP-250-LLPL™

ISO 9001 Certified

In-Building Low Loss, Low PIM Plenum Rated Coaxial Cable Assemblies

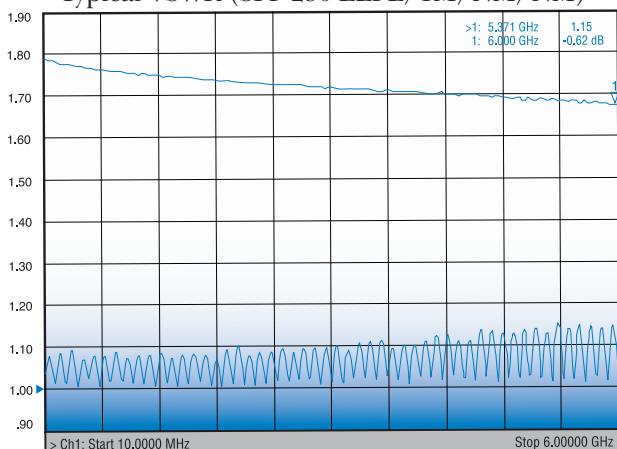
- *Excellent PIM (typical -160 dBc) for optimum system performance*
- *UL910 plenum rated satisfying building code requirements*
- *Super flexible for ease of installation*
- *Corrugated copper outer conductor providing greater than 100dB RF Shielding*
- *Wideband low VSWR typically 1.15:1 from 50 to 6000MHz covering all in-building technologies*
- *Durable FEP outer jacket is suitable for outdoor use*



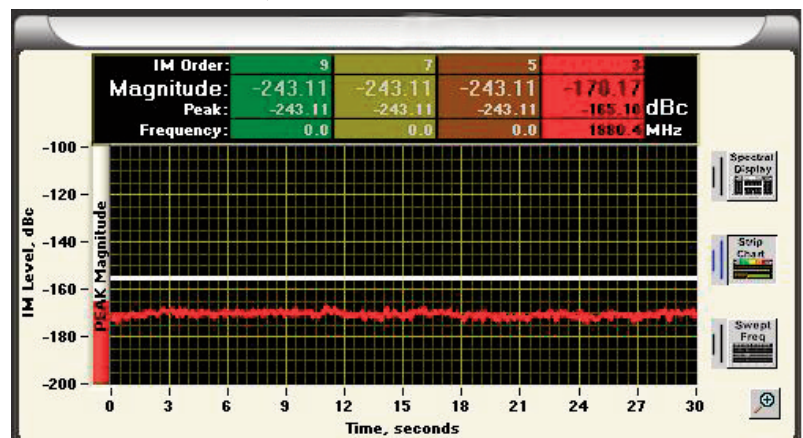
SPP-250-LLPL 50 Ohm low loss plenum rated coaxial cable assemblies

- Standard assemblies in 1, 2 and 3 meter lengths with popular connector combinations (see table on next page for a complete listing).
- Custom length assemblies are available
- 10 year Times Microwave warranty

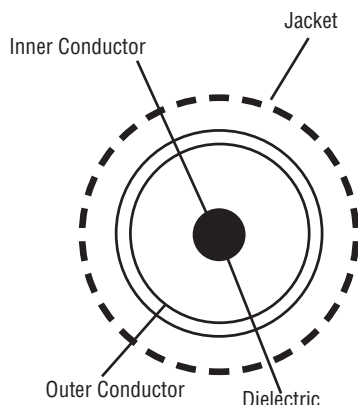
Typical VSWR (SPP-250-LLPL/1M/NM/NM)



Dynamic PIM Test Results



SPP-250-LLPL (15314)



Cable Construction

Inner Conductor: Solid bare copper

Dielectric: Tape wrapped low density PTFE

Outer Conductor: Seam welded corrugated copper tube

Jacket: Extruded FEP

Physical Specifications

Jacket: Extruded FEP; OD: in(mm)	0.280	(7.11)
Outer Conductor: Corrugated Copper Tube; OD: in(mm)	0.250	(6.35)
Dielectric: Tape Wrapped Low Density PTFE; OD: in(mm)	0.189	(4.80)
Center Conductor: Solid Bare Copper; OD: in(mm)	0.068	(1.73)
Bend Radius: in(mm)	1.0	(25.4)
Bending Moment: ft-lbs (Nom)	0.6	(0.8)
Tensile Strength: lb (kg)	150	(68)
Flat Plate Crush Strength: lbf (kgm)	100	(5.9)
Weight: lbs/1000 ft (kg/km)	52	(78)

Environmental Specifications

Installation Temperature Range °F/°C	-67 / +392	(-55 / +200)
Storage Temperature Range °F/°C	-67 / +392	(-55 / +200)
Operating Temperature Range °F/°C	-67 / +392	(-55 / +200)

Electrical Specifications

Velocity of Propagation: %	76		
Impedance: Ohms	50		
Capacitance: pF/ft (pF/m)	26.7	(87.6)	
Inductance: μH/ft (uH/m)	0.067	(0.22)	
Shielding Effectiveness: dB	>100		
Passive Intermodulation (PIM): dBc	< -155		
Center Conductor DC Resistance: Ohms/1000 ft/(km)	2.24	(7.3)	
Shield DC Resistance: Ohms/1000 ft (km)	2.00	(6.56)	
Attenuation & Average Power @ MHz	(dB/100ft)	(dB/100m)	(kW)
500	4.5	14.8	1.5
1000	6.4	21.0	1.1
2000	9.2	30.2	0.74
6000	16.4	53.8	0.41

Connectors

N Male Straight	SPP-250-NM	(3190-2833)
N Male Right Angle	SPP-250-NM-RA	(3190-2834)
N Female	SPP-250-NF	(3190-2851)
N Female Bulkhead	SPP-250-NF-BH	(3190-2835)
7-16 DIN Male Straight	SPP-250-716M	(3190-2853)
7-16 DIN Male Right Angle	SPP-250-716M-RA	(3190-2854)

Assemblies

	Insertion Loss dB @ frequency Max VSWR				
	500 MHz	1000 MHz	2000 MHz	6000 MHz	400 - 6000 MHz
SPP-250-LLPL/1M/NM/NM (102-0163)	0.21	0.29	0.41	0.73	1.25
SPP-250-LLPL/2M/NM/NM (102-0544)	0.36	0.50	0.71	1.27	1.25
SPP-250-LLPL/3M/NM/NM (102-0545)	0.50	0.71	1.02	1.80	1.25
SPP-250-LLPL/1M/DM/DM (102-0542)	0.21	0.29	0.41	0.73	1.30
SPP-250-LLPL/2M/DM/DM (102-0543)	0.36	0.50	0.71	1.27	1.30
SPP-250-LLPL/3M/DM/DM (102-0546)	0.50	0.71	1.02	1.80	1.30

Ordering Information for Jumpers

SPP-250-LLPL/X/X/X

Connector Codes

NM = N male
NMRA = N male right angle
NF = N female
NFB = N female bulkhead
DM = 716 DIN male
DMRA = 716 DIN male right angle

Length in meters

Available in any lengths with most popular connector combinations



SPP-250-LLPL 12/13

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