NEW

RADIO FREQUENCY SYSTEMS

CELLFLEX® Factory-Fit Premium & Standard Low VSWR Coaxial Cable Jumper Assemblies

for High-Performance Telecommunication Systems



Radio Frequency Systems' new CELLFLEX® Factory-Fit Jumpers feature a unique soldered-on connector for today's high-performance wireless systems. The connector design and manufacturing process has been optimized to produce premium VSWR and IM levels for PCS systems.

Our Meriden, Connecticut facility produces and stocks 3-, 6-, 8-, and 10-foot lengths, and can deliver custom lengths with specific VSWR or IM requirements.

- **100% VSWR and interface dimension-tested**
- **Premium VSWR**
  1.065:1 (30.0 dB) @ 806-960 & 1770-1990 MHz
  Preferred for VSWR- or DTF-sensitive systems
- **Standard VSWR**
  1.105:1 (26.0 dB) @ 806-960 & 1770-1990 MHz
  Meets most performance standards for general system requirements.
- **Superior mechanical and electrical performance using soldered contacts**
- **Low IM (typ. -155 dBc or better)**
- **Totally waterproof to IP68 - mated or unmated**
- **Small bend radius**
- **Includes heavy-duty strain relief sealing boots**
- **Jumper label is serialized for traceablility**
- **Available with 1/2" standard LCF12 or 1/2"super-flexible SCF12 coaxial cable**
- **Available with standard "J" or flame-retardant "JFN" jacket types**
- **Available with UL listed CATVR flame-retardant jacket**

VSWR (max values, typical)

Part number	410-470 MHz	806-960 MHz	1850-1990 MHz	1700-2200 MHz
815396-9xxP (LCF)	-40 dB	-35 dB	-35 dB	-32 dB
826032-9xxP (SCF)	-35 dB	-32 dB	-32 dB	-30 dB

CELLFLEX® Factory-Fit Premium & Standard Low VSWR Coaxial Cable Jumper Assemblies

Ordering Information

		Premium VSWR		Standard VSWR	
Standard 1/2" Cable, LCF12-50J					
Connectors	**Length, ft.**	**Part No.**	**Model No.**	**Part No.**	**Model No.**
Straight 7-16 DIN males	3	815396-903P	7M7ML12-030FFP	815396-903	7M7ML12-030FFS
Straight 7-16 DIN males	6	815396-906P	7M7ML12-060FFP	815396-906	7M7ML12-060FFS
Straight 7-16 DIN males	8	815396-908P	7M7ML12-080FFP	815396-908	7M7ML12-080FFS
Straight 7-16 DIN males	10	815396-910P	7M7ML12-100FFP	815396-910	7M7ML12-100FFS
Straight 7-16 DIN male/N male	3	815414-903P	7MNML12-030FFP	815414-903	7MNML12-030FFS
Straight 7-16 DIN male/N male	6	815414-906P	7MNML12-060FFP	815414-906	7MNML12-060FFS
Straight 7-16 DIN male/N male	8	815414-908P	7MNML12-080FFP	815414-908	7MNML12-080FFS
Straight 7-16 DIN male/N male	10	815414-910P	7MNML12-100FFP	815414-910	7MNML12-100FFS
Straight N males	3	815372-903P	NMNML12-030FFP	815372-903	NMNML12-030FFS
Straight N males	6	815372-906P	NMNML12-060FFP	815372-906	NMNML12-060FFS
Straight N males	8	815372-908P	NMNML12-080FFP	815372-908	NMNML12-080FFS
Straight N males	10	815372-910P	NMNML12-100FFP	815372-910	NMNML12-100FFS
Superflexible 1/2" Cable, SCF12-50J					
Connectors	**Length, ft.**	**Part No.**	**Model No.**	**Part No.**	**Model No.**
Straight 7-16 DIN males	3	826032-903P	7M7MS12-030FFP	826032-903	7M7MS12-030FFS
Straight 7-16 DIN males	6	826032-906P	7M7MS12-060FFP	826032-906	7M7MS12-060FFS
Straight 7-16 DIN males	8	826032-908P	7M7MS12-080FFP	826032-908	7M7MS12-080FFS
Straight 7-16 DIN males	10	826032-910P	7M7MS12-100FFP	826032-910	7M7MS12-100FFS

Qualification Test Summary

Test Name	Qualifying Specification	ReferenceTest Procedure	Criteria Values	Verification
1. Cable Connector/ Cable Pull-off	IEC60169-4 CECC22190	IEC60169-1 Section 15.4.3	112 lb-f @ 1 minute	IM, VSWR and Visual
2. Cable Bending	IEC60169-4	IEC60169-1 15.4.4	From 12 inches away; 10 times, 90°	IM, VSWR and Visual.
3. Cable Torsion	IEC60169-4 CECC22190	IEC60169-1 15.4.5	22 in-lb (2.5 Nm), 60 seconds	IM and Visual
4. Coupling Nut Proof Torque	CECC22190	CECC22000 4.5.4	308 in-lb (35Nm), 3 times	Visual
5. Continuous Water Submerge	EN60529 IP68	RFS P-B605-A	18°C, 15PSI in water, 1 hr.	Insulation Resistance (500VDC>20Gohm)
6. Temperature Range	IEC60169-4		-40°/85°C, 5 times 1 hrs @ extremes	Insulation Resistance (500VDC>20Gohm)
7. Environmental Seal	IEC60169-4	5 PSI in water	1/85/20°C for 1 hr 1 time	Insulation Resistance (500VDC>20Gohm)
8. Corrosion Salt Spray	IEC60169-4 MIL-STD-202	ASTM B117, Method 101, Condition A	95% RH, 5% NaCl, 35°C, 96 hrs	Visual
9. Vibration	MIL-STD-202	Method 204, Test Condition B	10-2000 Hz, 15g, 12 cycles @ 20 min.	IM, VSWR and Visual
10. Shock	MIL-STD-202	Method 213, Test Condition I	100g, sawtooth, 6 ms, 18 times	IM, VSWR and Visual

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200 Pondview Drive, Meriden, CT 06450 • (203) 630-3311 • Fax (203) 634-2272