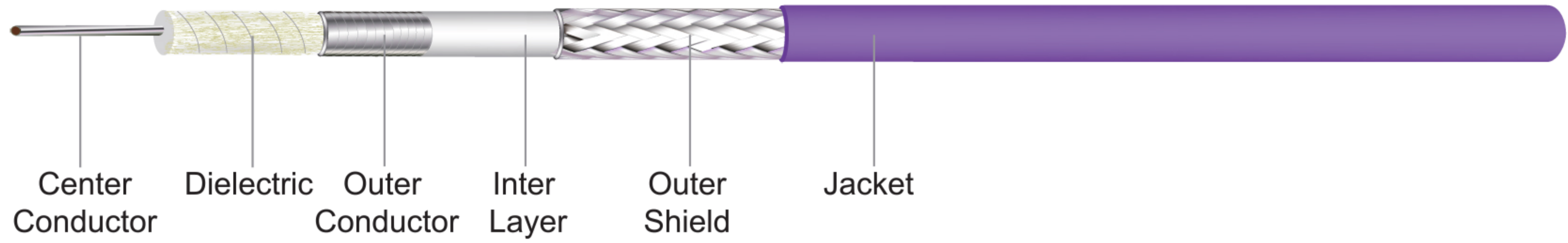


High Performance Flexible Steel Braided Coaxial Cables

DATA SHEET E141



Construction

Items	Material & Finish	Out Diameter (mm/inch)		Remark
Center Conductor	SPC	0.91 mm	0.036 inch	Solid
Dielectric	e-PTFE	2.72	0.107	
Outer Conductor	SPC	2.79	0.110	Tape Braid
Inter Layer	Aluminum Foil	2.95	0.116	Wrap Tape
Outer Shield	Stainless Steel Wire	3.20	0.126	Braid
Jacket	FEP	3.61	0.142	

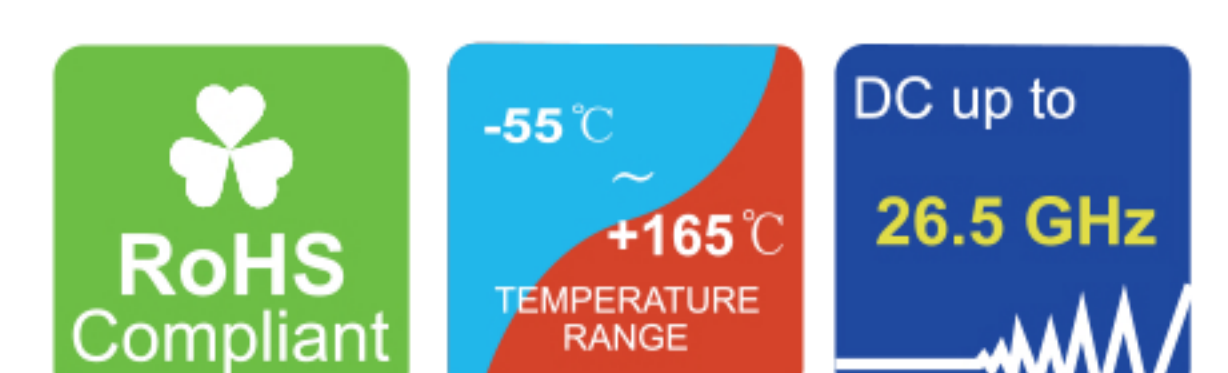
Electrical & Mechanical Specifications

Contents	Units	Typ.
Characteristic Impedance	Ω	50
Operating Frequency	GHz	Max. DC to 26.5 GHz
Velocity of Propagation	%	76
Signal Delay	ns/m	4.38
Capacitance	pF/m	87.7
Operating Temperature	°C	-55 ~ +165
Shield Effectiveness	dB	90
Working Voltage	Vrms	1500
Min. Bending Radius (Static)	mm	8.4

Performance by Frequency

Frequency (MHz)		Max. Attenuation		CW POWER (Watts)
		(m)	(ft)	
F1	100	0.12	0.038	1108
F2	500	0.28	0.085	492
F3	1000	0.40	0.121	346
F4	3000	0.70	0.212	198
F5	6000	1.00	0.304	138
F6	8000	1.16	0.353	119
F7	10000	1.30	0.397	106
F8	15000	1.61	0.492	85
F9	18000	1.78	0.542	78
F10	20000	1.88	0.573	73
F11	26500	2.19	0.667	63

Attenuation at Frequency $\text{dB}/100\text{m} = K1 \cdot \sqrt{f(\text{MHz})} + K2 \cdot f(\text{MHz})$ K1=1.2380700
K2=0.0006499



E141 Assemblies

Flexible Steel Braided Assemblies available with SMA and/or Type-N Connectors in whole inch increments.

