

1/4" R Cable

Order Number

SL 014R PE

SL 014R FRNC



Mechanical Data

Inner Conductor	Copper clad aluminum wire	2.6 mm
Dielectric	Foam PE	6.4 mm
Outer Conductor	Corrugated copper tube	7.6 mm
Jacket	PE/FRNC	9.5 mm
UV Resistance and Halogen Free PE/FRNC		
Weight PE (FRNC)	94 (104) kg/km	
Tensile Strength	560 N	
Min. Bending Radius(single)	50 mm	
Min. Bending Radius(repeated)	120 mm	
Number of Bends, Minimum (typical)	15 (30)	
Recommended Hanger Spacing	0.6 m	
Installation Temperature PE/FRNC	-25 °C ~ +60 °C / -20 °C ~ +60 °C	
Operating Temperature	-40 °C ~ +85 °C	

Electrical Data

Impedance	50 +/-1 Ω	DC Breakdown Boltage	2200 V
Relative Velocity of Propagation	85 %	Jacket Spark Test Voltage	5000 V
Capacitance	78.5 pF/m	Inner Conduct or DC-Resistance	6.05 Ω/km
Inductance	0.195 μH/m	Outer Conductor DC-Resistance	4.45 Ω/km
Maximum Operating Frequency	15 GHz	Return Loss 800~1000MHz	≤-26 dB
Cut-off Frequency	19 GHz	Return Loss 1700~2500 MHz	≤-24 dB
Peak Power Rating	7.5 kw	Return Loss 2500~3000MHz	≤-24 dB

Attenuation and Power

Attenuation, ambient temperature: 20°C

Average power, ambient temperature: 40°C

Frequency [MHz]	Attenuation [dB/100m]	Average Power [kw]	Frequency [MHz]	Attenuation [dB/100m]	Average Power [kw]
100	5.14	1.92	1000	14.1	0.70
200	7.50	1.40	1800	19.5	0.51
300	8.50	1.20	2000	20.6	0.49
400	9.00	1.09	2200	21.8	0.45
450	9.14	1.08	2500	23.4	0.42
800	12.7	0.78	2700	28.0	0.36
900	13.3	0.74	3000	28.3	0.35