

## STANDARD

Title : **RFC114-50J**

Item : **11450**

Cable with standard UV resistant PE jacket  
halogen free according

### Construction Materials

Inner Conductor Material	Smooth Copper Tube
Dielectric Material	Foam Polyethylene
Outer Conductor Material	Corrugated Copper Tube
Jacket Material	Black polyethylene

### Dimensions

Inner Conductor OD	13.10±0.10 mm
Diameter Over Dielectric	32.30±0.25 mm
Outer Conductor OD	35.80±0.25 mm
Diameter Over Jacket	38.80±0.30 mm

### Mechanical Data

Minimum bending radius:	
Single Bending	150 mm
Repeated Bending	380 mm
Minimum Number of Bends	15
Tensile Strength	2490 N (560 lb)
Approximate weight	840 (kg/km)



## FLAME RETARDANT

Title : **RFC114-50JFR**

Item : **11450-FR**

Cable with UV resistant, halogen free,  
low smoke flame retardant jacket

### Electrical Data

Capacitance	76 pF/m
Impedance	50 Ω
Velocity	88%
RF peak voltage	4.3 kV
RF peak power	205 kW
Cut-off Frequency	3.8 GHz
Insulation Resistance	>10000 MΩ.km
Insulation Voltage	10.0 kV
Shielding Effectiveness	>120 dB
Inner Conductor DC Resistance	1.12 Ω/km
Outer Conductor DC Resistance	0.95 Ω/km

### VSWR

800 - 1000 MHz	≤ 1.13
1700 - 2500 MHz	≤ 1.15
2500 - 3000 MHz	≤ 1.20

### Recommended temperature range

Operating Temperature	-55 °C to +85 °C
Installation Temperature	-40 °C to +60 °C
Storage Temperature	-70 °C to +85 °C

### Attenuation and power rating

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kW)
100	0.82	12.56
200	1.19	8.81
450	1.92	5.41
800	2.67	3.91
900	2.86	3.72
1000	3.04	3.51
1500	4.20	2.85
1800	4.28	2.41
2000	4.48	2.33
2200	4.76	2.21
2500	5.15	2.03
2700	5.73	1.74