

STANDARD

Title : **RFC78-50J**Item : **7850**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	9.45 mm
Diameter Over Dielectric	22.80 mm
Outer Conductor OD	25.40 mm
Diameter Over Jacket	27.80 mm

Mechanical Data

Minimum bending radius:	
Single Bending	90 mm
Repeated Bending	250 mm
Minimum Number of Bends	15
Tensile Strength	1500 N (332 lb)
Approximate weight	410 / 450 (kg/km)



FLAME RETARDANT

Title : **RFC78-50JFR**Item : **7850-FR**Cable with UV resistant, halogen free,
low smoke flame retardant jacket**Electrical Data**

Capacitance	76 pF/m
Impedance	50 ±2 Ω
Velocity	88%
RF peak voltage	3.2 KV
RF peak power	90 kW
Cut-off Frequency	4.90 GHz
Insulation Resistance	>10000 MΩ.km
Insulation Voltage	10.0 KV
Shielding Effectiveness	>120 dB
Inner Conductor DC Resistance	1.00 Ω/km
Outer Conductor DC Resistance	1.20 Ω/km

VSWR

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

Attenuation and power rating

Frequency (MHZ)	Attenuation (dB/100m)	Average Power (kW)
100	1.17	8.62
200	1.69	5.99
450	2.60	3.88
800	3.56	2.83
900	3.80	2.65
1000	4.03	2.50
1500	5.08	1.99
1800	5.61	1.79
2000	6.05	1.68
2400	6.75	1.54
3000	7.60	1.33