

## STANDARD

Title : **RFC12-50J**

Item : **1250**

Cable with standard UV resistant PE Jacket halogen free according

### Construction Materials

Inner Conductor Material	Copper-Clad Aluminum Wire
Dielectric Material	Foam Polyethylene
Outer Conductor Material	Corrugated Copper Tube
Jacket Material	Black polyethylene

### Dimensions

Inner Conductor OD	4.80 mm
Diameter Over Dielectric	12.00 mm
Outer Conductor OD	13.80 mm
Diameter Over Jacket	15.70 mm

### Mechanical Data

Minimum bending radius:	
Single Bending	55 mm
Repeated Bending	130 mm
Bending moment	6.5 Nm
Flat plate crush strength	8 N/mm
Tensile Strength	950 N
Maximum pulling strength	94(daN)
Max. length per hoisting gri	70 m
Maximum hanger spacing	1 m
Approximate weight	225 / 247 (kg/km)



## FLAME RETARDANT

Title : **RFC12-50JFR**

Item : **1250-FR**

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

### Electrical Data

Capacitance	76 pF/m
Impedance	50 ±2 Ω
Velocity	87%
Peak Power Rating	40 KW
Max. Operating Frequency	8.8 GHz
Insulation Resistance	>10000 MΩ.km
DC Breakdown Voltage	6000 V
PIM (3rd order,2*20W)	≤ - 160 dBc
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor dc Resistance	1.62 Ω/km
Outer Conductor dc Resistance	4.30 Ω/km
Shielding Attenuation	≥120dB

### VSWR

800MHz-1000MHz	≤ 1.13
1700MHz-2700MHz	≤ 1.15
2700MHz-4000MHz	≤ 1.20
4000MHz -5000MHz	≤ 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)
200	3.18	2.41
450	4.88	1.57
800	6.64	1.16
900	7.08	1.09
1800	10.35	0.75
2000	10.98	0.70
2200	11.58	0.67
2500	12.44	0.62
2700	13.02	0.59
3000	13.80	0.56
3500	15.15	0.51
4000	16.40	0.47
5000	18.62	0.42
6000	20.70	0.37