Ficha Técnica

CABLE COAXIAL
RF ½”

CONSTRUCTION

Inner conductor	Copper-clad aluminium wire	Ø 4.8 mm
Dielectric	Cellular polyethylene	Ø 12.1 mm
Outer conductor	Corrugated copper tube	Ø 13.9 mm
Jacketing	See table below	Ø 16.0 mm
Marking	NK Cables, cable type, manufacture week, year, batch number and meter mark	

ELECTRICAL CHARACTERISTICS at +20°C

Characteristic impedance	50 ± 1 Ω

Return loss 24 dB for 100 m cable with NKC connectors

Bands according to customer's specifications
- 380–500 MHz
- 806–960 MHz
- 1710–1880 MHz
- 1900–2170 MHz

Other bands also available on request

Attenuation	see table
Velocity factor	0.88
Capacitance	76 pF/m
Maximum frequency	10 000 MHz
Max power rating	see table
Peak RF voltage rating	1.80 kV
Peak power rating	31.8 kW
DC resistance	
• Inner conductor	1.43 Ω/km
• Outer conductor	1.99 Ω/km

ATTENUATION

Frequency	Attenuation dB/100 m	Power rating kW
10	0.669	12
30	1.17	6.9
50	1.51	5.3
88	2.02	4.0
100	2.16	3.7
108	2.25	3.6
174	2.88	2.8
200	3.09	2.6
300	3.83	2.1
400	4.45	1.8
450	4.74	1.7
500	5.01	1.6
512	5.08	1.6
600	5.53	1.4
700	6.01	1.3
800	6.45	1.2
850	6.67	1.2
890	6.84	1.2
900	6.88	1.2
950	7.09	1.1
960	7.13	1.1
1000	7.29	1.1
1200	8.05	0.99
1400	8.77	0.90
1600	9.44	0.84
1800	10.1	0.79
1900	10.4	0.76
2000	10.7	0.74
2200	11.3	0.70
2400	11.9	0.66
2600	12.4	0.63
2800	12.9	0.61
3000	13.5	0.58
3400	14.5	0.54
6000	20.2	0.39
8800	25.5	0.31

JACKETING OPTIONS

TYPE	CODE	JACKET	IEC 60754 -1/-2 halogen free, non corrosive	IEC 61034 low smoke emission	IEC 60332-3 C fire retardant	UV retardancy	Min. installation temperature
RF 1/2"-50	NKRF01200	Black polyethylene, halogen free	yes	no	no	yes	-40°C
RF 1/2"-50 GHF	NKRF01201	Grey, halogen free fire retardant thermoplastic	yes	yes	yes	no	-5°C
RF 1/2"-50 BHF	NKRF01202	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	-5°C
RF 1/2"-50 BHF (UL) CATVR E205016	NKRF01204	Black, halogen free fire retardant thermoplastic	yes	yes	yes	yes	-5°C

MECHANICAL CHARACTERISTICS

Weight	250 kg/km
Maximum pulling force	2550 N
Minimum bending radius	
• Single bending	70 mm
• Repeated bending	120 mm
Operating temperature range	-55...+80°C
Crush resistance	2.0 kg/mm
Bending moment	3.8 Nm
Recommended clamp distance	1.0 m

STANDARD DRUM

Cable type	Standard drum name	Standard length m	Outer diam. cm	Outer width cm	Drum weight kg	Total weight kg	Drum freight volume m3
RF 1/2*	P11D	500	114	55	43	168	0.71

Certificado CЄ Comunidad Europea

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