



K26 LSZH 50/75Ω Coaxial Cables

Applications

The 50Ω cables are HF transmission coaxial cables for GSM antennas, and the 75Ω cables are HF transmission coaxial cables for cameras (type KX6), and video surveillance (type 11 RTC). The Halogen-free cables are suitable for laid on hooks, and pulled through walls or through technical ducts.



Standards

- RATP K26
- Fire Performance: NF C 32070.2.2

Construction

- Inner Conductors:

50Ω cables:

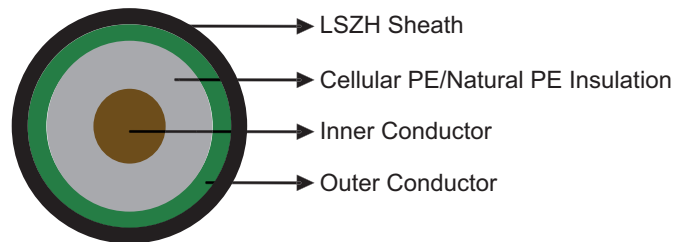
Flexible Type (F)- solid copper coated aluminium (for 1/4" , 3/8" & 1/2" F conductor); red copper tube (for 7/8" and 1'1/4 F conductor); corrugated red copper tube (for 1'5/8 F conductor).

Super Flexible Type (SF) - solid copper coated aluminium (for 3/8" & 1/2" SFconductor); helical corrugated copper tube (for 7/8" SF conductor); copper wire (for 1/4" SFconductor).

Extra Flexible (XF) – copper wire (for 1/4" XF conductor); solid copper coated aluminium (for 3/8" XF conductor).

75Ω cables: solid red copper (for type 11 RTC) or red copper tube (for type KX6).

- Dielectric: Cellular PE or natural PE (only for KX6 type).
- Outer Conductor:
 - 50Ω cables: corrugated copper tube.
 - 75Ω cables: copper braid.
- Outer sheath: LSZH.



Electrical Characteristics at 20°C

50 Ω Cables

Type of Cable	inch	1/4"F	3/8"F	1/2"F	7/8"F	1'1/4F	1'5/8F
Impedance	Ω	50	50	50	50	50	50
Attenuation							
@10MHz	dB/100m	1.25	1.46	0.65	0.34	0.25	0.2
@150MHz	dB/100m	4.99	4.22	2.61	1.45	1.02	0.85
@200MHz	dB/100m	5.8	4.90	3.04	1.69	1.19	1.00
@450MHz	dB/100m	8.8	7.51	4.66	2.61	1.86	1.57
@900MHz	dB/100m	12.8	11.1	6.78	3.81	2.75	2.34
@1000MHz	dB/100m	13.5	11.6	7.18	4.04	2.93	2.49



@1500MHz	dB/100m	17.0	14.4	8.99	5.08	3.72	3.17
@1700MHz	dB/100m	18.3	15.5	9.64	5.45	4.01	3.42
Average Power Rating							
@10MHz	KW	5.79	7.23	13	28.0	41	57
@150MHz	KW	1.45	1.81	3.2	7.0	11	13
@200MHz	KW	1.25	1.56	2.75	6.0	9.0	11
@450MHz	KW	0.818	1.02	1.8	3.88	5.5	6.9
@900MHz	KW	0.566	0.70	1.25	2.65	3.83	4.49
@1000MHz	KW	0.533	0.663	1.18	2.50	3.60	4.20
@1500MHz	KW	0.426	0.53	0.947	1.99	2.82	3.22
@1700MHz	KW	0.398	0.494	0.884	1.85	2.61	2.96
Velocity of Propagation	%	85	88	88	88	88	88

Type of Cable	inch	1/4"SF	3/8"SF	1/2"SF	7/8"SF	1/4"XF	3/8"XF
Impedance	Ω	50	50	50	50	50	50
Attenuation							
@10MHz	dB/100m	1.71	1.3	0.83	0.39	2.31	1.098
@150MHz	dB/100m	6.89	4.89	3.87	1.59	7.44	4.38
@200MHz	dB/100m	8.01	5.59	4.53	1.85	8.54	5.098
@450MHz	dB/100m	12.31	8.49	7.09	2.85	14.3	7.83
@900MHz	dB/100m	17.92	12.66	10.45	4.15	20.5	11.4
@1000MHz	dB/100m	18.98	13.5	11.09	4.4	21.83	12.1
@1500MHz	dB/100m	23.78	17.43	13.98	5.52	27.13	15.1
@1700MHz	dB/100m	25.51	18.91	15.03	5.92	29.5	16.2
Average Power Rating							
@10MHz	KW	2.8	6.0	8.4	21.5	3.8	7.02
@150MHz	KW	0.7	1.52	2.1	5.4	0.9	1.76
@200MHz	KW	0.6	1.31	1.81	4.6	0.8	1.51
@450MHz	KW	0.39	0.86	1.18	3.0	0.51	0.99
@900MHz	KW	0.272	0.593	0.815	2.07	0.37	0.68
@1000MHz	KW	0.257	0.56	0.77	1.95	0.34	0.64
@1500MHz	KW	0.206	0.449	0.616	1.55	0.26	0.51
@1700MHz	KW	0.192	0.42	0.575	1.45	0.24	0.48
Velocity of Propagation	%	83	81	82	88	84	85

75 Ω Cables

Type of Cable	inch	11 RTC	KX6
Impedance	Ω	75	75
@50MHz	dB/100m	2.5	8.13
@100MHz	dB/100m	3.6	11.73
@150MHz	dB/100m	4.6	14.53
@200MHz	dB/100m	5.4	16.92
@500MHz	dB/100m	8.5	27.0
@800MHz	dB/100m	10.5	35.1
@1000MHz	dB/100m	12.2	40.02
Velocity of Propagation	%	87	66

➤ Mechanical and Thermal Properties

- Minimum Bending Radius: 7.5×OD
- Temperature Range: 50 Ω cables: -40°C to +85°C (during operation); -20°C to +60°C (during installation);
75 Ω cables: -20°C to +85°C (during operation); -10°C to +60°C (during installation).



Dimensions and Weight

50 Ω Cables

Cable Code	Nominal Inner Conductor Diameter mm	Nominal Outer Conductor Diameter mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1/4" F Cable Type				
RS/K26-F-HCAAYZ-50-6(1/4")	2.5	7.6	9.5	145
3/8" F Cable Type				
RS/K26-F-HCAAYZ-50-8(3/8")	3.3	9.5	11.5	204
1/2" F Cable Type				
RS/K26-F-HCAAYZ-50-12(1/2")	4.8	13.7	16.0	248
7/8" F Cable Type				
RS/K26-F-HCTAYZ-50-22(7/8")	9.0	24.8	27.75	575
1 1/4" F Cable Type				
RS/K26-F-HCTAYZ-50-32(1 1/4)	13.0	35.7	39.5	1133
1 5/8" F Cable Type				
RS/K26-F-HHTAYZ-50-42(1 5/8)	17.3	46.2	50.0	1631
1/4" SF Cable Type				
RS/K26-HRYZ-50-5(1/4" SF)	1.9	6.4	7.95	99
3/8" SF Cable Type				
RS/K26-HRCAYZ-50-7(3/8" SF)	2.8	9.6	11.15	159
1/2" SF Cable Type				
RS/K26-HRCAYZ-50-9(1/2" SF)	3.6	12.1	13.65	201
7/8" SF Cable Type				
RS/K26-HRCTYZ-50-22(7/8" SF)	9.4	25.0	27.5	550
1/4" XF Cable Type				
RS/K26-HRYZ-50-5(1/4" XF)	5.75	5.6	6.85	69
3/8" XF Cable Type				
RS/K26-HRCAYZ-50-7(3/8" XF)	2.76	8.0	10.1	111

*F = flexible, SF = super flexible, XF = extraflexible

75 Ω Cables

Cable Code	Nominal Inner Conductor Diameter mm	Nominal Outer Conductor Diameter mm	Nominal Overall Diameter mm	Nominal Weight kg/km
11 RTC Cable Type				
RS/K26-11RTC-BC80-H	1.7	7.85	10.3	115
KX6 Cable Type				
RS/K26-KX6-BC80-H	0.6	4.85	7.2	66



Impact Resistant



Mineral Oil Resistant



Acid & Alkaline Resistant



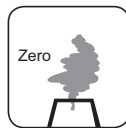
Laid in Ducts / on Hooks



Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1



Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN 50266



Zero Halogen
IEC 60754-1/NF C20-454
EN 50267-2-1



Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073



Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453



Low Toxicity

