

FlexLine^â

Super flexible cable 3/8" S (FRNC); UL listed



Design

Inner conductor: copper-clad aluminium wire
Insulation of foamed Polyethylene (PE) with skin
Outer conductor: copper-tape - longitudinal welded.
Spiral corrugated

ø 2.6 mm (0.102 in)
ø 6.5 mm (0.256 in)

ø (9.1 ±0.15) mm (0.358 ±0.006 in)

Jacket:

Thermoplastic copolymer (FRNC) BK
Wall thickness about 0.6 mm (0.024 in)

ø (10.3 ±0.15) mm (0.406 ±0.006 in)

Printing: LEONI L * FlexLine[®] 3/8" S FRNC 50Ω >FRNC,PE< (UL) Listed 3E03
" internal order number " "month/year" + marking every meter

Electrical data at 20°C

Inner conductor resistance	≤	5.4	Ohm/km	(1.65 Ohm/1000ft)
Outer conductor resistance	≤	7.0	Ohm/km	(2.13 Ohm/1000ft)
Insulation resistance	≥	10	GOhm*km	(32.8 GOhm*1000ft)
Capacitance (1 kHz)		80	nF/km	(24.4 nF/1000ft)
Characteristic Impedance		(50 ± 1)	Ohm	
Rel. velocity of propagation		82	%	
Test voltage (wire/screen rms 50Hz 1min)		2000	V	
HF-operating voltage (peak)	≤	900	V	
Return loss 400 - 500 MHz	≥	26	dB	(VSWR 1.1)
800 - 1000 MHz	≥	26	dB	(VSWR 1.1)
1700 - 2700 MHz	≥	26	dB	(VSWR 1.1)

Technical Data Sheet

Screening attenuation	≥ 120	dB
Passive intermodulation	≥ 160	dBc
Inductance	0.195	μH/m (0.059 μH/ft)
Max. operating frequency	13.4	GHz
Cut-off frequency	17	GHz
Max. peak power	13.5	kW
Attenuation	s. table	

Frequency (MHz)	100	450	800	900	1000	1800	1900	2200	2500	2700	3000
Attenuation typ. (dB/100m) (dB/100ft)	3,9 (1,2)	8,6 (2,6)	11,8 (3,6)	12,6 (3,8)	13,3 (4,1)	18,6 (5,7)	19,2 (5,9)	20,9 (6,4)	22,5 (6,9)	23,6 (7,2)	25,1 (7,7)
Mean. Power (kW) at 40°C (104°F)	1.86	0.85	0.63	0.59	0.56	0.4	0.39	0.36	0.34	0.32	0.3

Mechanical and thermal characteristics

Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)

Screen material acc. to DIN EN 13602 Cu-ETP-R

Flame retardant acc. to IEC 60332-3-24 (Cat. C)

Flame retardant acc. to UL1581, Sec. 1080 VW-1

UL-File E121168 Vol.1 Sec.3

Other characteristics:

Corrosivity of fire gases acc. to IEC 60754-2

Stripping force of insulation (without outer conductor) ≥ 130 N

By turning it is possible to remove 20mm of insulation without plastic sticking on the conductor

Permissible temperature range, installation : -25°C (-13°F) up to +60°C (+140°F)

Permissible temperature range, operation : -55°C (-67°F) up to +85°C (+185°F)

Min. bending radius allowed : repeated 2,5X Ø, single 1,25X Ø

Number of bends. minimum (typical) : 20 (50)

Tensile strength : ≤ 600 N

Weight about : 124 Kg/km (83,1 lb/1000ft)

Application/Special feature:

Coaxial cabling for application cellular phone

Designation of order:

L45466-B17-C116

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02YSWKH 2.6/6.5-50 ALCU FRNC

500 m (1640 ft) on non-returnable reel