

RF Total Solution

We are at the Heart of All Human Communication





Leading Solution

LS aims to develop into a company that provides its clients with a Leading Solution,
contributes to the overall society,
and offers a business environment where the employees can realize their dreams.

Radiating Cable

RFCX Series(Coupled Mode)



Construction

		RFCX 12D (1/2")	RFCX 22D (7/8")	RFCX 33D (1-1/4")	RFCX 42D (1-5/8")
Inner Conductor	Material / Construction	Copper-Clad Aluminum Wire	Smooth Copper Tube	Smooth Copper Tube	Helically Corrugated Copper Tube
	Diameter (mm)	4.8	9.4	13.1	17.2
Dielectric	Material / Construction	Foamed Polyethylene	Foamed Polyethylene	Foamed Polyethylene	Foamed Polyethylene
	Diameter (mm)	12.0	23.0	32.5	42.5
Outer Conductor	Material / Construction	Annularly Corrugated Copper Tube with Milled Slots	Annularly Corrugated Copper Tube with Milled Slots	Annularly Corrugated Copper Tube with Milled Slots	Annularly Corrugated Copper Tube with Milled Slots
	Diameter (mm)	13.8	25.2	36.0	46.5
Jacket Diameter	Standard Jacket (mm)	16.0	28.2	39.0	50.0
	Halogen-Free / Flame-Retardant Jacket (mm)	16.0	28.2	39.0	50.0

Mechanical Characteristics

		RFCX 12D (1/2")	RFCX 22D (7/8")	RFCX 33D (1-1/4")	RFCX 42D (1-5/8")
Min. Bending Radius (mm)		125	250	380	500
Recommended Operating Temperature	Standard Jacket (°C)	-40 ~ +80	-40 ~ +80	-40 ~ +80	-40 ~ +80
	Halogen-Free / Flame-Retardant Jacket (°C)	-30 ~ +80	-30 ~ +80	-30 ~ +80	-30 ~ +80
Nominal Weight	Standard Jacket (kg/km)	238	495	951	1,256
	Halogen-Free / Flame-Retardant Jacket (kg/km)	257	564	1,010	1,354

Electrical Characteristics

		RFCX 12D (1/2")	RFCX 22D (7/8")	RFCX 33D (1-1/4")	RFCX 42D (1-5/8")
DC Resistance Ω /1,000m (Ω /1,000ft)	Inner Conductor	1.55 (0.47)	1.50 (0.5)	0.72 (0.22)	0.85 (0.26)
	Outer Conductor	2.50 (0.76)	1.9 (0.6)	0.60 (0.18)	0.50 (0.15)
Insulation Resistance ($M\Omega \cdot km$)		10,000	10,000	10,000	10,000
Dielectric Strength (for 1 Min.)		DC 4,000V	DC 6,000V	DC 9,000V	DC 11,000V
Velocity of Propagation (%)		88	88	88	87
Characteristic Impedance (Ω)		50	50	50	50

Attenuation (at 20°C) & Average Power Rating (at Ambient 40°C, Inner Conductor 100°C)

Frequency (MHz)		RFCX 12D (1/2")	RFCX 22D (7/8")	RFCX 33D (1-1/4")	RFCX 42D (1-5/8")
Attenuation (dB/1km)	75	22.0	12.0	10.0	7.5
	150	31.0	16.0	13.0	9.5
	450	55.0	29.0	24.0	19.0
	800	75.0	49.0	34.0	26.0
	900	79.0	52.0	36.0	28.0
	1,800	118.0	76.0	59.0	43.0
	2,200	131.0	88.0	71.0	55.0
	2,400	140.0	92.0	81.0	58.0
Coupling Loss (dB, 50% / 95%)	75	63 / 74	59 / 69	58 / 68	60 / 72
	150	67 / 77	66 / 77	65 / 74	74 / 80
	450	71 / 83	70 / 80	68 / 78	69 / 80
	800	75 / 86	70 / 82	69 / 82	70 / 81
	900	74 / 85	69 / 79	70 / 81	71 / 82
	1,800	71 / 82	67 / 81	66 / 79	65 / 78
	2,200	73 / 84	69 / 80	67 / 80	66 / 78
	2,400	71 / 83	69 / 82	66 / 79	65 / 77

* Specifications Subject to change without notice

HFC Series

Flexible Foam Dielectric Feeder

**Construction**

		HFC 12D (1/2")	HFC 22D (7/8")	HFC 33D (1-1/4")	HFC 42D (1-5/8")
Inner Conductor	Material / Construction	Copper-Clad Aluminum Wire	Smooth Copper Tube	Smooth Copper Tube	Helically Corrugated Copper Tube
	Diameter (mm)	4.8	9.0	13.1	17.2
Dielectric	Material / Construction	Foamed Polyethylene	Foamed Polyethylene	Foamed Polyethylene	Foamed Polyethylene
	Diameter (mm)	12.0	22.1	32.5	42.5
Outer Conductor	Material / Construction	Annularly Corrugated Copper Tube	Annularly Corrugated Copper Tube	Annularly Corrugated Copper Tube	Annularly Corrugated Copper Tube
	Diameter (mm)	13.8	24.9	36.0	46.5
Jacket Diameter	Standard Jacket (mm)	16.0	27.9	39.0	50.0
	Halogen-Free / Flame-Retardant Jacket (mm)	16.0	27.9	39.0	50.0

Mechanical Characteristics

		HFC 12D (1/2")	HFC 22D (7/8")	HFC 33D (1-1/4")	HFC 42D (1-5/8")
Min. Bending Radius (mm)		125	250	380	500
Recommended Operating Temperature	Standard Jacket (°C)	-40 ~ +80	-40 ~ +80	-40 ~ +80	-40 ~ +80
	Halogen-Free / Flame-Retardant Jacket (°C)	-30 ~ +80	-30 ~ +80	-30 ~ +80	-30 ~ +80
Nominal Weight	Standard Jacket (kg/km)	242	516	963	1,265
	Halogen-Free / Flame-Retardant Jacket (kg/km)	260	560	1,014	1,358
Flat Plate Crush Resistance (kg/mm)		2.0	1.4	2.4	2.7
Max. Pulling Force (kg)		113	147	260	250



RF Total Solution

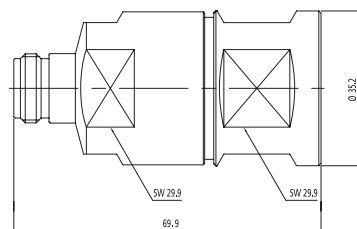
for Wireless Base Station, In building System

LS cable, a global supplier in the wire & cable sector, is now expanding its product portfolio on the wireless communication field to provide total- package solution.

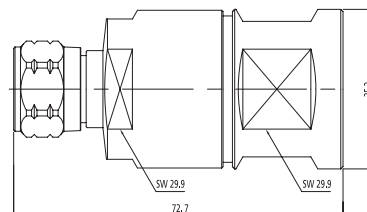
With years of experience serving in one of the most advanced market in the world, LS Cable has capability to implement the most efficient solutions based on state of the art technologies on hand,

LS Cable is now a RF Total Solution provider to support our customers to meet sophisticated demand of today's fast- evolving technology of wireless communications.

We are determined to support our customers with our leading solution technologies.



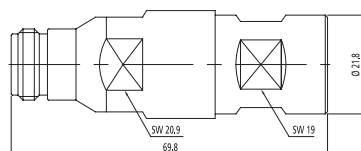
N-Female for 7/8"



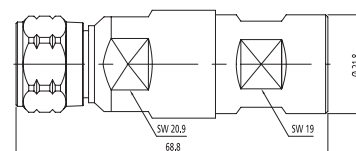
N-Male for 7/8"

Connector N Type for 7/8" LHF & HFAC & HFC

Description	Length (mm)	Max.Dia (mm)	Weight (g)	Code		
				LHF	HFAC	HFC
N-Female for 7/8"	69.9	35.2	215	CLH 22NF	CHF 22NF	CHFS 22NF
N-Male for 7/8"	72.7	35.2	215	CLH 22NM	CHF 22NM	CHFS 22NM



N-Female for 1/2"



N-Male for 1/2"

Connector N Type for 1/2" LHF & HFC & HFSC

Description	Length (mm)	Max.Dia (mm)	Weight (g)	Code		
				LHF	HFC	HFSC
N-Female for 1/2"	69.8	21.8	115	CLH 12NF	CHF 12NF	CHFS 12NF
N-Male for 1/2"	68.8	21.8	120	CLH 12NM	CHF 12NM	CHFS 12NM

Environmental Characteristics

Temperature Range	-65 °C ~ +165 °C / -85 °F ~ +329 °F
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part. 4.6.3
Waterproof	IP68

Material Characteristics

Bodies, Cap (Coupling Nut)		Brass / Silver Plated or Su Co (Alloy of Cu/ Sn/ Zn) Plated
Back Nut		Brass / Nickel Plated
Pin	Male	Brass / Silver Plated or Su Co (Alloy of Cu/ Sn/ Zn) Plated
	Female	Beryllium - Copper / Silver Plated or Su Co (Alloy of Cu/ Sn/ Zn) Plated
Insulators		Plated PTEE (TEFLON)
Gasket		Silicon Rubber