



RF CATALOGUE





CD DATACOM SRL HAS BEEN PRESENT
ON THE ELECTRONIC COMPONENTS
DISTRIBUTION MARKET SINCE 1993
CD DATACOM SRL CAN PROVIDE PRODUCTS
FOR RADIO FREQUENCY MARKET
SUCH AS CABLES AND ACCESSORIES
FOR MOBILE COMMUNICATIONS

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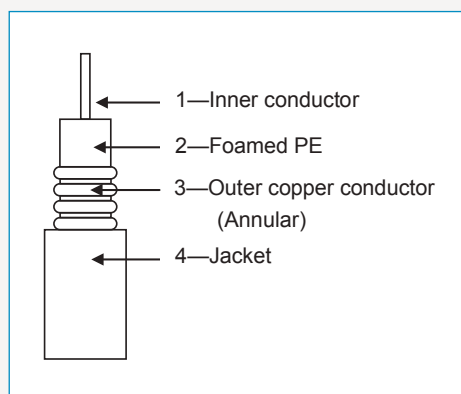
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Radio frequency coaxial cables 1/4" LCF PE jacket

P/n 980.630.910



CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	2.6±0.05	Copper clad aluminum wire
Insulation	6.5±0.10	Foamed polyethylene
Outer copper conductor	7.7±0.20	Annular corrugated copper tube
Jacket	9.0±0.20	Polyethylene

MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	40 (single bend)
Min. dynamic bending radius	mm	80 (repeated 15 times)
Operating temperature	°C	-40 ÷ +80

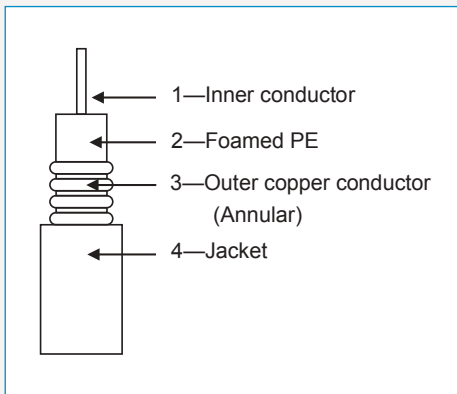
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	86%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	77 pF/m	Nominal value
Dielectric strength	DC 2.000 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz

ATTENUATION (NOMINAL VALUE)	
Frequency (MHz)	Attenuation (dB/100m)
800	12.90
900	13.78
1.800	20.43
2.000	21.71
2.400	24.16
3.000	27.57

Note: Maximum value shall be 105% of the nominal value

Radio frequency coaxial cables 1/2" LCF PE jacket

P/n 980.630.915



CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	4.8±0.05	Copper clad aluminum wire
Insulation	12.2±0.20	Foamed polyethylene
Outer copper conductor	13.9±0.25	Annular corrugated copper tube
Jacket	15.7±0.30	Polyethylene

MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	40 (single bend)
Min. dynamic bending radius	mm	125 (repeated 15 times)
Operating temperature	°C	-40 ÷ +80

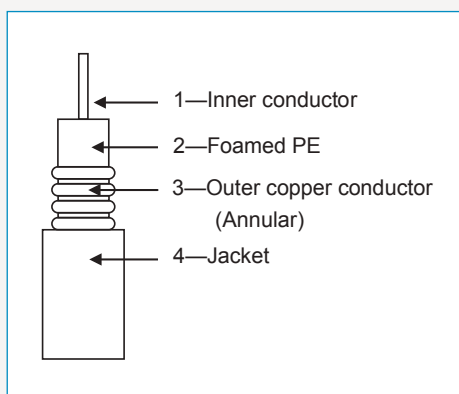
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	88%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	76 pF/m	Nominal value
Dielectric strenght	DC 6.000 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz

ATTENUATION (NOMINAL VALUE)	
Frequency (MHz)	Attenuation (dB/100m)
800	6.57
900	7.02
1.800	10.34
2.000	10.99
2.400	12.21
3.000	13.89

Note: Maximum value shall be 105% of the nominal value

Radio frequency coaxial cables 7/8" LCF PE jacket

P/n 980.630.920



CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	9.0±0.10	Copper tube
Insulation	22.2±0.20	Foamed polyethylene
Outer copper conductor	24.9±0.30	Annular corrugated copper tube
Jacket	27.5±0.20	Polyethylene

MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	140 (single bend)
Min. dynamic bending radius	mm	250 (repeated 15 times)
Operating temperature	°C	-40 ÷ +80

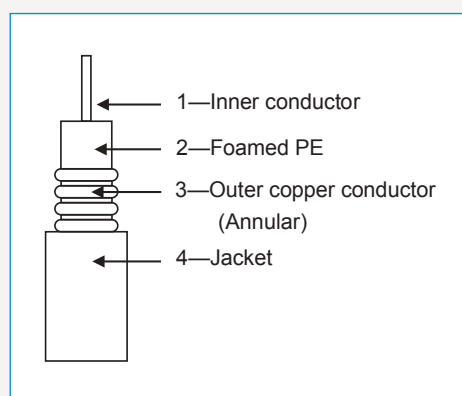
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	88%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	76 pF/m	Nominal value
Dielectric strength	DC 10.000 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz

ATTENUATION (NOMINAL VALUE)	
Frequency (MHz)	Attenuation (dB/100m)
800	3.65
900	3.89
1.800	5.79
2.000	6.16
2.400	6.86
3.000	7.85

Note: Maximum value shall be 105% of the nominal value

Radio frequency coaxial cables 1-1/4" LCF PE jacket

P/n 980.630.925



CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	13.1±0.10	Copper tube
Insulation	32.5±0.30	Foamed polyethylene
Outer copper conductor	35.8±0.30	Annular corrugated copper tube
Jacket	38.5±0.40	Polyethylene

MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	200 (single bend)
Min. dynamic bending radius	mm	380 (repeated 15 times)
Operating temperature	°C	-40 ÷ +80

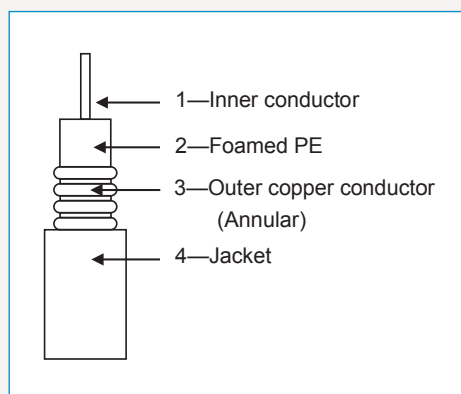
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	88%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	76 pF/m	Nominal value
Dielectric strenght	DC 10.000 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz

ATTENUATION (NOMINAL VALUE)	
Frequency (MHz)	Attenuation (dB/100m)
800	2.64
900	2.78
1.800	4.16
2.000	4.42
2.400	4.74
3.000	5.62

Note: Maximum value shall be 105% of the nominal value

Radio frequency coaxial cables 1-5/8" LCF PE jacket

P/n 980.630.928



CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	17.3±0.10	Helical corrugated copper tube
Insulation	42.3±0.20	Foamed polyethylene
Outer copper conductor	46.5±0.30	Annular corrugated copper tube
Jacket	49.5± 0.40	Polyethylene

MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	280 (single bend)
Min. dynamic bending radius	mm	500 (repeated 15 times)
Operating temperature	°C	-40 ÷ +80

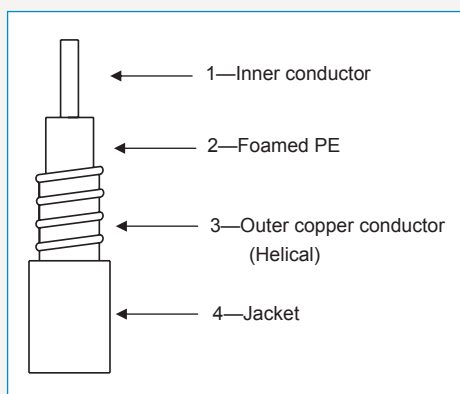
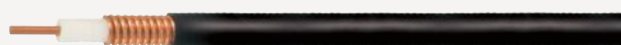
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	88%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	76 pF/m	Nominal value
Dielectric strenght	DC 15.000 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz

ATTENUATION (NOMINAL VALUE)	
Frequency (MHz)	Attenuation (dB/100m)
800	2.13
900	2.28
1.800	3.46
2.000	3.69
2.400	3.92
3.000	4.24

Note: Maximum value shall be 105% of the nominal value

Radio frequency coaxial cables 1/4" HCF PE jacket

P/n 980.630.901

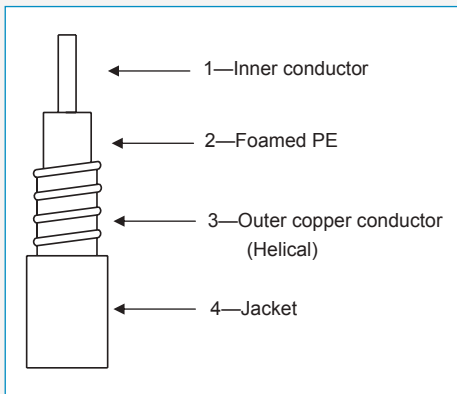


CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	1.9±0.05	Copper clad aluminum wire
Insulation	4.8±0.10	Foamed polyethylene
Outer copper conductor	6.4±0.20	Helical corrugated copper tube
Jacket	7.4±0.20	Polyethylene
MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	12 (single bend)
Min. dynamic bending radius	mm	25 (repeated 15 times)
Operating temperature	°C	-40 ÷ +80
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	82%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	80 pF/m	Nominal value
Dielectric strenght	DC 1.600 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz
ATTENUATION (NOMINAL VALUE)		
Frequency (MHz)	Attenuation (dB/100m)	
450	12.21	
900	17.76	
1.700	25.74	
2.000	28.22	
2.400	31.42	
3.000	34.89	

Note: Maximum value shall be 105% of the nominal value

Radio frequency coaxial cables 1/2" HCF PE jacket

P/n 980.630.904



CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	3.6±0.05	Copper clad aluminum wire
Insulation	9.2±0.20	Foamed polyethylene
Outer copper conductor	12.0±0.25	Helical corrugated copper tube
Jacket	13.3±0.20	Polyethylene

MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	30 (single bend)
Min. dynamic bending radius	mm	55 (repeated 15 times)
Operating temperature	°C	-40 ÷ +80

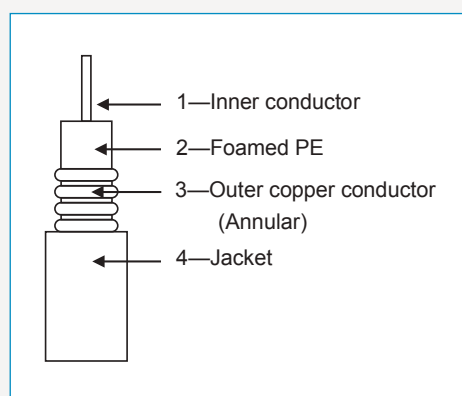
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	81%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	80 pF/m	Nominal value
Dielectric strength	DC 2.500 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz

ATTENUATION (NOMINAL VALUE)	
Frequency (MHz)	Attenuation (dB/100m)
800	9.70
900	10.34
1.800	15.13
2.000	16.05
2.400	17.78
3.000	20.16

Note: Maximum value shall be 105% of the nominal value

Radio frequency coaxial cables 1/4" LCF LSZH flame retardant jacket

P/n 980.630.911



REFERENCE STANDARDS FOR LSZH JACKET CABLES

- Test method:
 IEC 60754-1: Halogen acid gas
 IEC 60754-2: Degree of acidity of gas
 IEC 61034-2: Smoke density
 IEC 60332-1-2: Flame propagation
 IEC 60332-3-24-C: Fire propagation

WE CAN ALSO OFFER CABLES CONFORM TO NEW CPR - Construction Products Regulation (EU 305/2011) STANDARD

- Test method:
 EN 60754-2: Degree of acidity of gas
 EN 61034-2: Smoke density
 EN 60332-1-2: Flame propagation
 EN 50399: Fire propagation

CONSTRUCTION OF CABLE

Item	Diameter (mm)	Material
Inner Conductor	2.6±0.05	Copper clad aluminum wire
Insulation	6.5±0.10	Foamed polyethylene
Outer copper conductor	7.7±0.20	Annular corrugated copper tube
Jacket	9.0±0.20	LSZH polyolefin

MECHANICAL CHARACTERISTICS

Item	Unit	Nominal value
Min. static bending radius	mm	40 (single bend)
Min. dynamic bending radius	mm	80 (repeated 15 times)
Operating temperature	°C	-30 ÷ +80

ELECTRICAL CHARACTERISTICS

Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	86%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	77 pF/m	Nominal value
Dielectric strenght	DC 2.000 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz

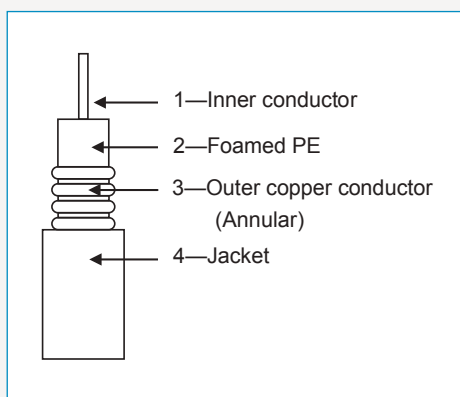
ATTENUATION (NOMINAL VALUE)

Frequency (MHz)	Attenuation (dB/100m)
800	12.90
900	13.78
1.800	20.43
2.000	21.71
2.400	24.16
3.000	27.57

Note: Maximum value shall be 105% of the nominal value

Radio frequency coaxial cables 1/2" LCF LSZH flame retardant jacket

P/n 980.630.900



REFERENCE STANDARDS FOR LSZH JACKET CABLES

- Test method:
 IEC 60754-1: Halogen acid gas
 IEC 60754-2: Degree of acidity of gas
 IEC 61034-2: Smoke density
 IEC 60332-1-2: Flame propagation
 IEC 60332-3-24-C: Fire propagation

WE CAN ALSO OFFER CABLES CONFORM TO NEW CPR - Construction Products Regulation (EU 305/2011) STANDARD

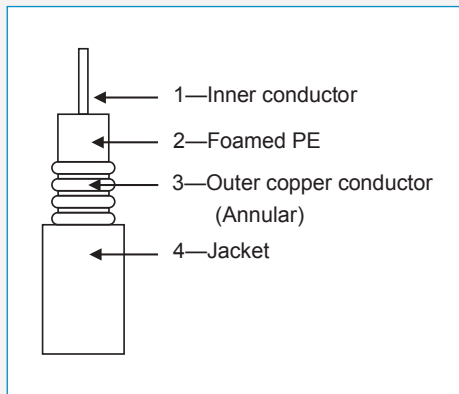
- Test method:
 EN 60754-2: Degree of acidity of gas
 EN 61034-2: Smoke density
 EN 60332-1-2: Flame propagation
 EN 50399: Fire propagation

CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	4.8±0.05	Copper clad aluminum wire
Insulation	12.2±0.20	Foamed polyethylene
Outer copper conductor	13.9±0.25	Annular corrugated copper tube
Jacket	15.7±0.30	LSZH polyolefin
MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	80 (single bend)
Min. dynamic bending radius	mm	125 (repeated 15 times)
Operating temperature	°C	-30 ÷ +80
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	88%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	76 pF/m	Nominal value
Dielectric strength	DC 6.000 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz
ATTENUATION (NOMINAL VALUE)		
Frequency (MHz)	Attenuation (dB/100m)	
800	6.57	
900	7.02	
1.800	10.34	
2.000	10.99	
2.400	12.21	
3.000	13.89	

Note: Maximum value shall be 105% of the nominal value

Radio frequency coaxial cables 7/8" LCF LSZH flame retardant jacket

P/n 980.630.921



REFERENCE STANDARDS FOR LSZH JACKET CABLES

- Test method:
 IEC 60754-1: Halogen acid gas
 IEC 60754-2: Degree of acidity of gas
 IEC 61034-2: Smoke density
 IEC 60332-1-2: Flame propagation
 IEC 60332-3-24-C: Fire propagation

WE CAN ALSO OFFER CABLES CONFORM TO NEW CPR - Construction Products Regulation (EU 305/2011) STANDARD

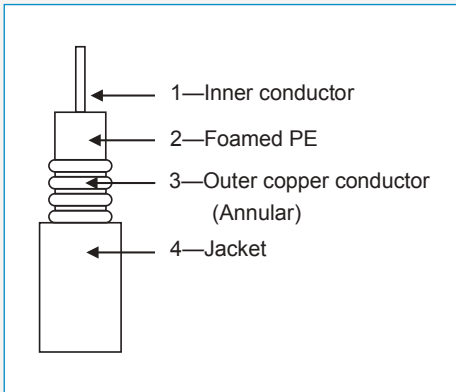
- Test method:
 EN 60754-2: Degree of acidity of gas
 EN 61034-2: Smoke density
 EN 60332-1-2: Flame propagation
 EN 50399: Fire propagation

CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	9.0±0.10	Copper tube
Insulation	22.2±0.20	Foamed polyethylene
Outer copper conductor	24.9±0.30	Annular corrugated copper tube
Jacket	27.5±0.20	LSZH polyolefin
MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	140 (single bend)
Min. dynamic bending radius	mm	250 (repeated 15 times)
Operating temperature	°C	-30 ÷ +80
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	88%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	76 pF/m	Nominal value
Dielectric strenght	DC 10.000 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz
ATTENUATION (NOMINAL VALUE)		
Frequency (MHz)	Attenuation (dB/100m)	
800	3.65	
900	3.89	
1.800	5.79	
2.000	6.16	
2.400	6.86	
3.000	7.85	

Note: Maximum value shall be 105% of the nominal value

Radio frequency coaxial cables 1-1/4" LCF LSZH flame retardant jacket

P/n 980.630.926



CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	13.1±0.10	Copper tube
Insulation	32.5±0.30	Foamed polyethylene
Outer copper conductor	35.8±0.30	Annular corrugated copper tube
Jacket	38.5±0.40	LSZH polyolefin

MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	200 (single bend)
Min. dynamic bending radius	mm	380 (repeated 15 times)
Operating temperature	°C	-30 ÷ +80

ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	88%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	76 pF/m	Nominal value
Dielectric strenght	DC 10.000 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz

ATTENUATION (NOMINAL VALUE)	
Frequency (MHz)	Attenuation (dB/100m)
800	2.64
900	2.78
1.800	4.16
2.000	4.42
2.400	4.74
3.000	5.62

Note: Maximum value shall be 105% of the nominal value

REFERENCE STANDARDS FOR LSZH JACKET CABLES

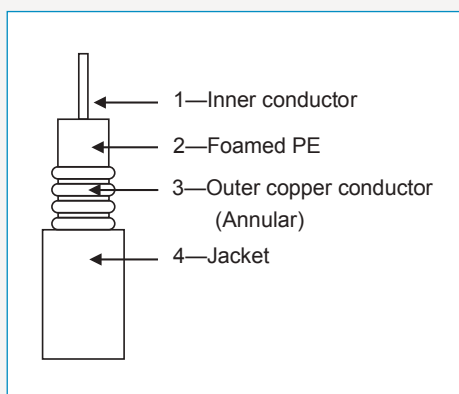
- Test method:
 IEC 60754-1: Halogen acid gas
 IEC 60754-2: Degree of acidity of gas
 IEC 61034-2: Smoke density
 IEC 60332-1-2: Flame propagation
 IEC 60332-3-24-C: Fire propagation

WE CAN ALSO OFFER CABLES CONFORM TO NEW CPR - Construction Products Regulation (EU 305/2011) STANDARD

- Test method:
 EN 60754-2: Degree of acidity of gas
 EN 61034-2: Smoke density
 EN 60332-1-2: Flame propagation
 EN 50399: Fire propagation

Radio frequency coaxial cables 1-5/8" LCF LSZH flame retardant jacket

P/n 980.630.929



REFERENCE STANDARDS FOR LSZH JACKET CABLES

- Test method:
 IEC 60754-1: Halogen acid gas
 IEC 60754-2: Degree of acidity of gas
 IEC 61034-2: Smoke density
 IEC 60332-1-2: Flame propagation
 IEC 60332-3-24-C: Fire propagation

WE CAN ALSO OFFER CABLES CONFORM TO NEW CPR - Construction Products Regulation (EU 305/2011) STANDARD

- Test method:
 EN 60754-2: Degree of acidity of gas
 EN 61034-2: Smoke density
 EN 60332-1-2: Flame propagation
 EN 50399: Fire propagation

CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	17.3±0.10	Helical corrugated copper tube
Insulation	42.3±0.20	Foamed polyethylene
Outer copper conductor	46.5±0.30	Annular corrugated copper tube
Jacket	49.5±0.40	LSZH polyolefin

MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	280 (single bend)
Min. dynamic bending radius	mm	500 (repeated 15 times)
Operating temperature	°C	-30 ÷ +80

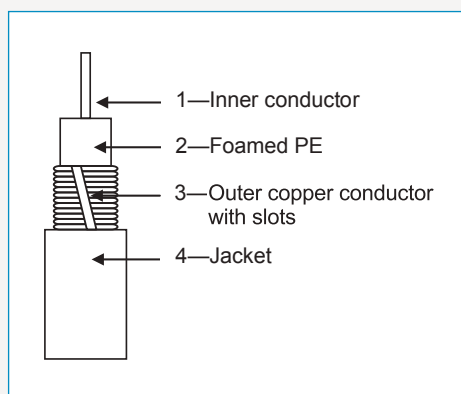
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Velocity	88%	Nominal value
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Capacitance	76 pF/m	Nominal value
Dielectric strenght	DC 15.000 V	1 minute
VSWR typical value	1.10	820÷960 MHz
	1.10	1.710÷2.500 MHz

ATTENUATION (NOMINAL VALUE)	
Frequency (MHz)	Attenuation (dB/100m)
800	2.13
900	2.28
1.800	3.46
2.000	3.69
2.400	3.92
3.000	4.24

Note: Maximum value shall be 105% of the nominal value

Leaky coaxial cables 1/2" LSZH flame retardant jacket

P/N 980.630.909



REFERENCE STANDARDS FOR LSZH JACKET CABLES

- Test method:
 IEC 60754-1: Halogen acid gas
 IEC 60754-2: Degree of acidity of gas
 IEC 61034-2: Smoke density
 IEC 60332-1-2: Flame propagation
 IEC 60332-3-24-C: Fire propagation

WE CAN ALSO OFFER CABLES CONFORM TO NEW CPR - Construction Products Regulation (EU 305/2011) STANDARD

- Test method:
 EN 60754-2: Degree of acidity of gas
 EN 61034-2: Smoke density
 EN 60332-1-2: Flame propagation
 EN 50399: Fire propagation

CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	4.8±0.05	Copper clad aluminum wire
Insulation	/	Foamed polyethylene
Outer conductor	13.0±0.30	Overlapping corrugated copper foil with slots
Jacket	15.6±0.30	LSZH polyolefin

MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	200 (single bend)
Operating temperature	°C	-30 ÷ +80

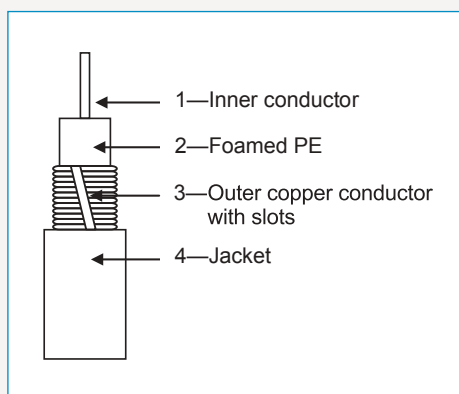
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Stop bands	1200-1400 MHz	
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Dielectric strength	DC 6.000 V	1 minute
Jacket spark test voltage	8.000 V	
Velocity	88%	Nominal value
VSWR within working frequency band (±3%)	1.30	

ATTENUATION (NOMINAL VALUE)		
Frequency (MHz)	Attenuation (dB/100m)	Coupling loss (50%/95%,2m)(±5dB)
450	4.8	78/87
800	6.6	71/75
900	7.4	68/73
1.800	11.9	63/69
1.900	12.5	62/68
2.000	13.2	62/68
2.200	15.4	61/69
2.400	21.0	60/68

Range: attenuation: ±10%, coupling loss: ±5dB

Leaky coaxial cables 7/8" LSZH flame retardant jacket

P/n 980.630.922



REFERENCE STANDARDS FOR LSZH JACKET CABLES

- Test method:
 IEC 60754-1: Halogen acid gas
 IEC 60754-2: Degree of acidity of gas
 IEC 61034-2: Smoke density
 IEC 60332-1-2: Flame propagation
 IEC 60332-3-24-C: Fire propagation

WE CAN ALSO OFFER CABLES CONFORM TO NEW

CPR - Construction Products Regulation (EU 305/2011) STANDARD

- Test method:
 EN 60754-2: Degree of acidity of gas
 EN 61034-2: Smoke density
 EN 60332-1-2: Flame propagation
 EN 50399: Fire propagation

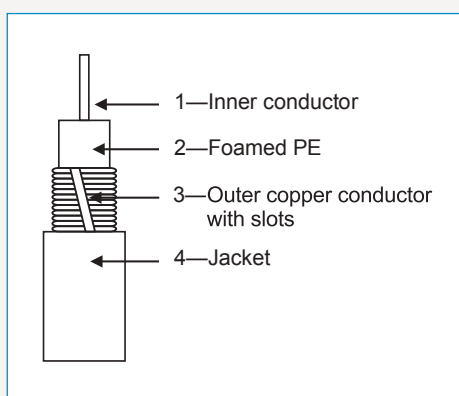
CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	9.0±0.10	Copper tube
Insulation	/	Foamed polyethylene
Outer conductor	23.0±0.30	Overlapping corrugated copper foil with slots
Jacket	25.8±0.20	LSZH polyolefin
MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	350 (single bend)
Operating temperature	°C	-30 ÷ +80
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Working bandwidth	698-970/1710-2170/2300-2400 MHz	
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Dielectric strenght	DC 15.000 V	1 minute
Jacket spark test voltage	8.000 V	
Velocity	88%	Nominal value
VSWR within working frequency band (±3%)	1.30	
ATTENUATION (NOMINAL VALUE)		
Frequency (MHz)	Attenuation (dB/100m)	Coupling loss (50%/95%,2m)(±5dB)
450	3.01	73/82
800	4.24	69/75
1.800	8.80	67/74
2.100	10.80	66/73
2.200	11.40	68/73
2.400	13.20	64/70

Range: attenuation: ±10%, coupling loss: ±5dB

The listed specifications are subject to change without any notice or communication

Leaky coaxial cables 1-1/4" LSZH flame retardant jacket

P/n 980.630.927



CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	13.1±0.10	Copper tube
Insulation	/	Foamed polyethylene
Outer conductor	33.0±0.30	Overlapping corrugated copper foil with slots
Jacket	38.0±0.30	LSZH polyolefin

MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	500 (single bend)
Operating temperature	°C	-30 ÷ +80

ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Working bandwidth	800-1.000/1.700-2.400 MHz	
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Dielectric strenght	DC 15.000 V	1 minute
Jacket spark test voltage	10.000 V	
Velocity	88%	Nominal value
VSWR within working frequency band (±3%)	1.30	

ATTENUATION (NOMINAL VALUE)		
Frequency (MHz)	Attenuation (dB/100m)	Coupling loss (50%/95%,2m)(±5dB)
800	2.70	67/73
900	3.05	65/71
1.800	4.95	64/69
2.200	6.24	61/69
2.400	7.80	61/68

Range: attenuation: ±10%, coupling loss: ±5dB

REFERENCE STANDARDS FOR LSZH JACKET CABLES

- Test method:
 IEC 60754-1: Halogen acid gas
 IEC 60754-2: Degree of acidity of gas
 IEC 61034-2: Smoke density
 IEC 60332-1-2: Flame propagation
 IEC 60332-3-24-C: Fire propagation

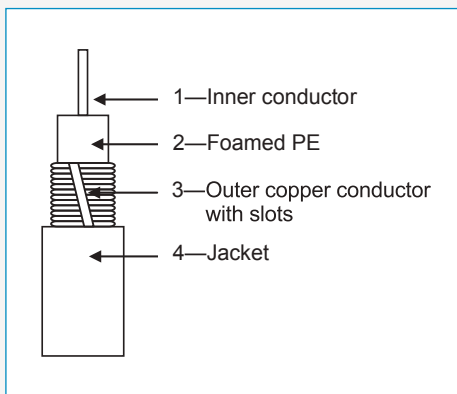
WE CAN ALSO OFFER CABLES CONFORM TO NEW

CPR - Construction Products Regulation (EU 305/2011) STANDARD

- Test method:
 EN 60754-2: Degree of acidity of gas
 EN 61034-2: Smoke density
 EN 60332-1-2: Flame propagation
 EN 50399: Fire propagation

Leaky coaxial cables 1-5/8" LSZH flame retardant jacket

P/n 980.630.930



REFERENCE STANDARDS FOR LSZH JACKET CABLES

- Test method:
 IEC 60754-1: Halogen acid gas
 IEC 60754-2: Degree of acidity of gas
 IEC 61034-2: Smoke density
 IEC 60332-1-2: Flame propagation
 IEC 60332-3-24-C: Fire propagation

WE CAN ALSO OFFER CABLES CONFORM TO NEW CPR - Construction Products Regulation (EU 305/2011) STANDARD

- Test method:
 EN 60754-2: Degree of acidity of gas
 EN 61034-2: Smoke density
 EN 60332-1-2: Flame propagation
 EN 50399: Fire propagation

CONSTRUCTION OF CABLE		
Item	Diameter (mm)	Material
Inner Conductor	17.3±0.30	Helical copper tube
Insulation	/	Foamed polyethylene
Outer conductor	43.5±0.30	Overlapping corrugated copper foil with slots
Jacket	48.0±0.40	LSZH polyolefin
MECHANICAL CHARACTERISTICS		
Item	Unit	Nominal value
Min. static bending radius	mm	700 (single bend)
Operating temperature	°C	-30 ÷ +80
ELECTRICAL CHARACTERISTICS		
Item	Specification	Remarks
Characteristics impedance	50±2 Ω	/
Best working bandwidth	700-1.000 MHz	
Cut-off frequency	1.200-1.400 MHz & its multiples	
Min. insulation resistance	5.000 MΩ*Km	DC 500 V 1 minute
Dielectric strenght	DC 15.000 V	1 minute
Jacket spark test voltage	8.000 V	
Velocity	88%	Nominal value
VSWR within working frequency band (±3%)	1.30	
ATTENUATION (NOMINAL VALUE)		
Frequency (MHz)	Attenuation (dB/100m)	Coupling loss (50%/95%,2m)(±5dB)
800	2.30	63/66
900	2.55	58/61

Range: attenuation: ±10%, coupling loss: ±5dB

7/16 DIN Coaxial connectors

RF connector with 7/16 DIN type is typical type for communication systems.

ZTT connectors have the following features:

- (a) Excellent VSWR Performance
- (b) Fast and Easy Installation
- (c) Waterproof
- (d) Environment Resistance Ensures Long Life and Consistent Performance

For electrical and mechanical characteristics see page 21

7/16 DIN Coaxial connectors for 1/4" LCF



P/n 950.057.497
male straight



P/n 950.057.990
male 90°

7/16 DIN Coaxial connectors for 1/4" HCF



P/n 950.057.496
male straight



P/n 950.057.992
male 90°

7/16 DIN Coaxial connectors for 1/2" LCF



P/n 950.057.498
male straight



P/n 950.057.991
male 90°



P/n 950.057.250
female straight

7/16 DIN Coaxial connectors for 1/2" HCF



P/n 950.057.499
male straight



P/n 950.057.989
male 90°



P/n 950.057.251
female straight

7/16 DIN Coaxial connectors for 7/8" LCF



P/n 950.057.451
male straight



P/n 950.057.252
female straight

7/16 DIN Coaxial connectors for 1-1/4" LCF



P/n 950.057.495
male straight



P/n 950.057.248
female straight

7/16 DIN Coaxial connectors for 1-5/8" LCF



P/n 950.057.494
male straight



P/n 950.057.249
female straight

Note: Please ask for other configurations not present on catalogue.

MATERIAL AND PLATING		
Inner Conductor Pin	Brass / Silver Plating	
Inner Conductor Socket	Tin Bronze / Silver Plating	
Insulator	PTFE/TPX	
Body & Outer Conductor	Brass / Trimetal Plating	
Gasket	Silicon Rubber	
Nut	Brass/Nickel Plating	
ELECTRICAL CHARACTERISTICS		
Characteristics Impedance	50 Ohm	
Frequency Range	DC~7.5 GHz	
Insulation Resistance	≥10.000 MΩ	
Center contact resistance	≤0.40 mΩ	
Outer contact resistance	≤0.20 mΩ	
Dielectric Withstanding Voltage	4.000 V rms(AC)	
Insertion Loss	@1.8 GHz	≤0.08 dB
	@3.0 GHz	≤0.12 dB
VSWR	@0.8-1.0 GHz	≤1.08 (≤1.10 right angle)
	@1.7-2.5 GHz	≤1.10 (≤1.12 right angle)
	@2.5-3.0 GHz	≤1.12 (≤1.15 right angle)
Intermodulation product PIM3	≤-160dBc	
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS		
Durability (matings)	≥500 cycles	
Temperature Range	-65°C to +85°C	
RoHS	Compliant	
Sealing Class	IP68	

The listed specifications are subject to change without any notice or communication

N Coaxial connectors

RF connector with N type is typical type for communication systems.

ZTT connectors have the following features:

- (a) Excellent VSWR Performance
- (b) Fast and Easy Installation
- (c) Waterproof
- (d) Environment Resistance Ensures Long Life and Consistent Performance

For electrical and mechanical characteristics see page 24

N Coaxial connectors for 1/4" LCF



P/n 950.055.805
male straight



P/n 950.055.231
male 90°



P/n 950.055.681
female straight

N Coaxial connectors for 1/2" LCF



P/n 950.055.800
male straight



P/n 950.055.232
male 90°



P/n 950.055.682
female straight

N Coaxial connectors for 1/2" HCF



P/n 950.055.801
male straight



P/n 950.055.233
male 90°



P/n 950.055.683
female straight

N Coaxial connectors for 7/8" LCF



P/n 950.055.806
male straight



P/n 950.055.684
female straight

Note: Please ask for other configurations not present on catalogue.

MATERIAL AND PLATING		
Inner Conductor Pin	Brass / Silver Plating	
Inner Conductor Socket	Tin Bronze / Silver Plating	
Insulator	PTFE/TPX	
Body & Outer Conductor	Brass / Trimetal Plating	
Gasket	Silicon Rubber	
Nut	Brass/Nickel Plating	
ELECTRICAL CHARACTERISTICS		
Characteristics Impedance	50 Ohm	
Frequency Range	DC~18 GHz	
Insulation Resistance	≥5.000 MΩ	
Center contact resistance	≤1.00 mΩ	
Outer contact resistance	≤0.25 mΩ	
Dielectric Withstanding Voltage	2.500 V rms(AC)	
Insertion Loss	@1.8 GHz	≤0.10 dB
	@3.0 GHz	≤0.15 dB
VSWR	@0.8-1.0 GHz	≤1.08 (≤110 right angle)
	@1.7-2.5 GHz	≤1.10 (≤112 right angle)
	@2.5-3.0 GHz	≤1.12 (≤115 right angle)
Intermodulation product PIM3	≤-160dBc	
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS		
Durability (matings)	≥500 cycles	
Temperature Range	-65°C to +85°C	
RoHS	Compliant	
Sealing Class	IP68	

4.3-10 Coaxial connectors

RF connector with 4.3-10 type is typical type for communication systems.

ZTT connectors have the following features:

- (a) Excellent VSWR Performance
- (b) Fast and Easy Installation
- (c) Waterproof
- (d) Environment Resistance Ensures Long Life and Consistent Performance

For electrical and mechanical characteristics see page 26

4.3-10 Coaxial connectors for 1/2" LCF



P/n 950.059.751
male straight

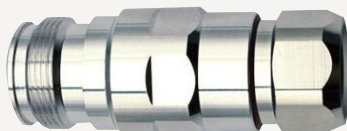


P/n 950.059.501
female straight

4.3-10 Coaxial connectors for 1/2" HCF



P/n 950.059.752
male straight



P/n 950.059.502
female straight

Note: Please ask for other configurations not present on catalogue.

MATERIAL AND PLATING		
Inner Conductor Pin	Brass / Silver Plating	
Inner Conductor Socket	Tin Bronze / Silver Plating	
Insulator	PTFE/TPX	
Body & Outer Conductor	Brass / Trimetal Plating	
Gasket	Silicon Rubber	
Nut	Brass/Nickel Plating	
ELECTRICAL CHARACTERISTICS		
Characteristics Impedance	50 Ohm	
Frequency Range	DC~6.0 GHz	
Insulation Resistance	≥10.000 MΩ	
Center contact resistance	≤1.0 mΩ	
Outer contact resistance	≤1.0 mΩ	
Dielectric Withstanding Voltage	2.500 V rms(AC)	
Insertion Loss	@3.0 GHz	≤0.10 dB
VSWR	@0.8-1.0 GHz	≤1.08 (≤1.10 right angle)
	@1.7-2.5 GHz	≤1.10 (≤1.12 right angle)
	@2.5-3.0 GHz	≤1.12 (≤1.15 right angle)
Intermodulation product PIM3	≤-160dBc	
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS		
Durability (matings)	≥500 cycles	
Temperature Range	-40°C to +85°C	
RoHS	Compliant	
Sealing Class	IP68	

Coaxial adapters

RF Coaxial adapters is typical type for communication systems.

ZTT adapters have the following features:

- (a) Excellent VSWR Performance
- (b) Fast and Easy Installation
- (c) Waterproof
- (d) Environment Resistance Ensures Long Life and Consistent Performance

For electrical and mechanical characteristics see page 29

N - N Coaxial adapters



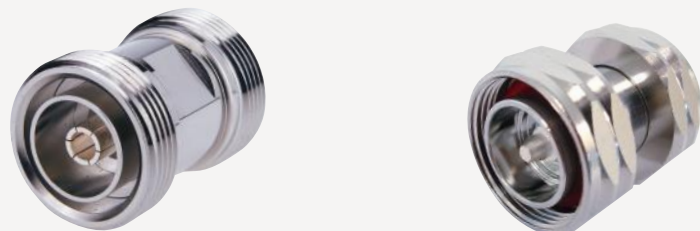
P/n 950.200.031

N female - N female straight

P/n 950.200.032

N male - N male straight

7/16 DIN - 7/16 DIN Coaxial adapters



P/n 950.200.041

7/16 DIN female -
7/16 DIN female straight

P/n 950.200.042

7/16 DIN male -
7/16 DIN male straight

The listed specifications are subject to change without any notice or communication

7/16 DIN - N Coaxial adapters



P/n 950.200.076
7/16 DIN female -
N female straight



P/n 950.200.077
7/16 DIN male -
N female straight



P/n 950.200.078
7/16 DIN female -
N male straight



P/n 950.200.079
7/16 DIN male -
N male straight

4.3-10 - N Coaxial adapters



P/n 950.200.181
4.3-10 male -
N female straight



P/n 950.200.182
4.3-10 female -
N female straight

4.3-10 - N Coaxial adapters



P/n 950.200.183
 4.3-10 female -
 N male straight



P/n 950.200.184
 4.3-10 male -
 N male straight

Note: Please ask for other configurations not present on catalogue.

MATERIAL AND PLATING		
Inner contact	Tin Bronze / Silver Plated	
Outer contact & Body	Brass / Trimetal Plated	
Dielectric	PTFE	
Gasket	Silicon Rubber	
Nut	Brass / Nickel Plated	
Nut	Brass/Nickel Plating	
ELECTRICAL CHARACTERISTICS		
Characteristics Impedance	50 Ohm	
Frequency Range	DC~3.0 GHz	
Insulation Resistance	≥10.000 MΩ (≥5.000 MΩ N type)	
Contact resistance	Center contact	≤0.4 mΩ
	Outer contact	≤0.2 mΩ
Dielectric Withstanding Voltage	4.000 V rms (2.500 V rms N type)	
Insertion Loss	≤0.10 dB	
VSWR	@1.0 GHz	≤1.04
	@2.0 GHz	≤1.06
	@3.0 GHz	≤1.08
Intermodulation product PIM3	≤-160dBc	
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS		
Temperature Range	-65~+165°C	
Sealing class	IP 68, connected	
RoHS	Compliant	

Jumpers HCF 1/2" 7/16 DIN + 7/16 DIN



7/16 DIN male straight
+ 7/16 DIN male straight
P/n 990.712.002 lenght 2,0 m
P/n 990.712.003 lenght 3,0 m
P/n 990.712.004 lenght 4,0 m
P/n 990.712.005 lenght 5,0 m



7/16 DIN male straight
+ 7/16 DIN male 90°
P/n 990.712.212 lenght 2,0 m
P/n 990.712.205 lenght 3,0 m
P/n 990.712.206 lenght 4,0 m
P/n 990.712.214 lenght 5,0 m
P/n 990.712.210 lenght 6,0 m
P/n 990.712.211 lenght 8,0 m
P/n 990.712.209 lenght 10,0 m



7/16 DIN female straight
+ 7/16 DIN male straight
P/n 990.712.207 lenght 2,0 m
P/n 990.712.204 lenght 3,0 m
P/n 990.712.213 lenght 4,0 m
P/n 990.712.215 lenght 5,0 m



7/16 DIN female straight
+ 7/16 DIN male 90°
P/n 990.712.203 lenght 2,0 m
P/n 990.712.208 lenght 3,0 m
P/n 990.712.216 lenght 4,0 m
P/n 990.712.217 lenght 5,0 m

Note: Please ask for other configurations
not present on catalogue.

Jumpers HCF 1/2" 7/16 DIN + 4.3-10

7/16 DIN female straight
+ 4.3-10 male straight

P/n 990.712.226 lenght 1,0 m
P/n 990.712.220 lenght 2,0 m
P/n 990.712.221 lenght 3,0 m

7/16 DIN male straight
+ 4.3-10 male 90°

P/n 990.712.227 lenght 1,0 m
P/n 990.712.222 lenght 2,0 m
P/n 990.712.223 lenght 3,0 m

7/16 DIN male straight
+ 4.3-10 male straight

P/n 990.712.228 lenght 1,0 m
P/n 990.712.218 lenght 2,0 m
P/n 990.712.219 lenght 3,0 m

7/16 DIN female straight
+ 4.3-10 male 90°

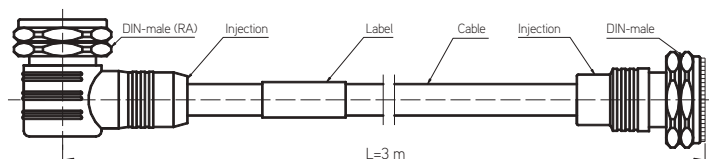
P/n 990.712.229 lenght 1,0 m
P/n 990.712.224 lenght 2,0 m
P/n 990.712.225 lenght 3,0 m

Note: Please ask for other configurations not present on catalogue.



PRODUCT DESCRIPTION	
Cable Type:	1/2" HCF Superflexible Coaxial Cable
Jumper Type:	Factory-Fit
Inner Conductor	Copper-Clad Aluminum Wire (Diameter 3.60 mm)
Dielectric	Physical Foam Polyethylene (Diameter 8.80 mm)
Outer Conductor	Helical Corrugated Copper Tube (Diameter 12.20 mm)
Jacket	Black PE (Diameter 13.30 mm)
ELECTRICAL CHARACTERISTICS	
Characteristics Impedance	50 Ohm
Insulation Resistance	≥5.000 MΩ
VSWR @DC~2.5GHz	≤1.10
Intermodulation product PIM3	<-160dBc
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS	
Cable Tensile resistance	≥500 N
Storage Temperature	-45°C to +65°C
Operating temperature	-65°C to +85°C
Water Proof level	IP68 (24hr, 1m, 20°C)
RoHS	Compliant

Example:



Label: P/n 990712205 (7/16M-7/16MAx3)

Grounding kits

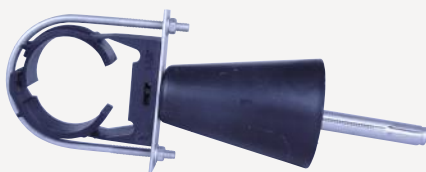
P/n 915.013.004
for cable 1/4" LCF

P/n 915.013.003
for cable 1/2" LCF

P/n 915.013.002
for cable 7/8" LCF



Clic Clamps



Cable Clamps



Note: Please ask for other configurations not present on catalogue.



Cable cutting tools

P/n 930.002.802
for cable 1/4" LCF



P/n 930.002.800
for cable 1/2" LCF



P/n 930.002.805
for cable 7/8" LCF

Emp protectors



Loads



Surge arresters



Note: Please ask for other configurations not present on catalogue.

The listed specifications are subject to change without any notice or communication

VSWR TO RETURN LOSS CONVERSION CHART

Due to mismatches in impedance within the connector, some of the signal is reflected. The ratio of the input to the reflected signal is called the Voltage Standing Wave Ratio (VSWR). This ratio can also be measured in dB, and expressed as Return Loss.

VSWR	RL (dB)	VSWR	RL (dB)	VSWR	RL (dB)	VSWR	RL (dB)	VSWR	RL (dB)
1.001	66.025	1.060	30.714	1.138	23.803	1.480	14.264	5.400	3.255
1.002	60.009	1.061	30.575	1.140	23.686	1.490	14.120	5.600	3.136
1.003	56.491	1.062	30.438	1.142	23.571	1.500	13.979	5.800	3.025
1.004	53.997	1.063	30.303	1.144	23.457	1.520	13.708	6.000	2.923
1.005	50.484	1.064	30.171	1.146	23.346	1.540	13.449	6.200	2.827
1.006	50.484	1.065	30.040	1.148	23.235	1.560	13.201	6.400	2.737
1.007	49.149	1.066	29.912	1.150	23.127	1.580	12.964	6.600	2.653
1.008	47.993	1.067	29.785	1.152	23.020	1.600	12.736	6.800	2.573
1.009	46.975	1.068	29.661	1.154	22.914	1.620	12.518	7.000	2.499
1.010	46.064	1.069	29.538	1.156	22.810	1.640	12.308	7.200	2.428
1.011	45.240	1.070	29.417	1.158	22.708	1.660	12.107	7.400	2.362
1.012	44.489	1.071	29.298	1.160	22.607	1.680	11.913	7.600	2.299
1.013	43.798	1.072	29.181	1.162	22.507	1.700	11.725	7.800	2.239
1.014	43.159	1.073	29.066	1.164	22.408	1.720	11.545	8.000	2.183
1.015	42.564	1.074	28.952	1.166	22.311	1.740	11.370	8.200	2.129
1.016	42.007	1.075	28.839	1.168	22.215	1.760	11.202	8.400	2.078
1.017	41.485	1.076	28.728	1.170	22.120	1.780	11.039	8.600	2.029
1.018	40.993	1.077	28.619	1.172	22.027	1.800	10.881	8.800	1.983
1.019	40.528	1.078	28.511	1.174	21.934	1.820	10.729	9.000	1.938
1.020	40.086	1.079	28.405	1.176	21.843	1.840	10.581	9.200	1.896
1.021	39.667	1.080	28.299	1.178	21.753	1.860	10.437	9.400	1.855
1.022	39.267	1.081	28.196	1.180	21.664	1.880	10.298	9.600	1.816
1.023	38.885	1.082	28.093	1.182	21.576	1.900	10.163	9.800	1.779
1.024	38.520	1.083	27.992	1.184	21.489	1.920	10.032	10.000	1.743
1.025	38.700	1.084	27.892	1.186	21.403	1.940	9.904	11.000	1.584
1.026	37.833	1.085	27.794	1.188	21.318	1.960	9.780	12.000	1.451
1.027	37.510	1.086	27.696	1.190	21.234	1.980	6.660	13.000	1.339
1.028	37.198	1.087	27.600	1.192	21.151	2.000	9.542	14.000	1.243
1.029	36.895	1.088	27.505	1.194	21.069	2.100	8.999	15.000	1.160
1.030	36.607	1.089	27.411	1.196	20.988	2.200	8.519	16.000	1.087
1.031	36.327	1.090	27.318	1.198	20.907	2.300	8.091	17.000	1.023
1.032	36.055	1.091	27.266	1.200	20.828	2.400	7.707	18.000	0.966
1.033	35.792	1.092	27.135	1.210	20.443	2.500	7.360	19.000	0.915
1.034	35.537	1.093	27.046	1.220	20.079	2.600	7.044	20.000	0.869
1.035	35.290	1.094	26.957	1.230	19.732	2.700	6.755	22.000	0.790
1.036	35.049	1.095	26.869	1.240	19.401	2.800	6.490	24.000	0.724
1.037	34.816	1.096	26.782	1.250	19.085	2.900	6.246	26.000	0.668
1.038	34.588	1.097	26.697	1.260	18.783	3.000	6.021	28.000	0.621
1.039	34.367	1.098	26.612	1.270	18.493	3.100	5.811	30.000	0.579
1.040	34.151	1.099	26.528	1.280	18.216	3.200	5.617	32.000	0.543
1.041	33.941	1.100	26.444	1.290	17.949	3.300	5.435	34.000	0.511
1.042	33.763	1.102	26.281	1.300	17.692	3.400	5.265	36.000	0.483
1.043	33.536	1.104	26.120	1.310	17.445	3.500	5.105	38.000	0.457
1.044	33.341	1.106	25.963	1.320	17.207	3.600	4.956	40.000	0.434
1.045	33.150	1.108	25.809	1.330	16.977	3.700	4.815	42.000	0.414
1.046	32.963	1.110	25.658	1.340	16.755	3.800	3.682	44.000	0.395
1.047	32.780	1.112	25.510	1.350	16.540	3.900	4.556	46.000	0.038
1.048	32.602	1.114	25.364	1.360	16.322	4.000	4.437	48.000	0.362
1.049	32.427	1.116	25.221	1.370	16.131	4.100	4.324	50.000	0.347
1.050	32.256	1.118	25.081	1.380	15.936	4.200	4.217	55.000	0.316
1.051	32.088	1.120	24.943	1.390	15.747	4.300	4.115	60.000	0.290
1.052	31.923	1.122	24.808	1.400	15.563	4.400	4.018	65.000	0.267
1.053	31.762	1.124	24.675	1.410	15.385	4.500	3.926	70.000	0.248
1.054	31.604	1.126	24.544	1.420	15.211	4.600	3.838	75.000	0.232
1.055	31.449	1.128	24.415	1.430	15.043	4.700	3.753	80.000	0.217
1.056	31.297	1.130	24.289	1.440	14.879	4.800	3.673	85.000	0.204
1.057	31.147	1.132	24.164	1.450	14.719	4.900	3.596	90.000	0.193
1.058	31.000	1.134	24.042	1.460	14.564	5.000	3.522	95.000	0.183
1.059	30.856	1.136	23.921	1.470	14.412	5.200	3.383	100.000	0.174

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