

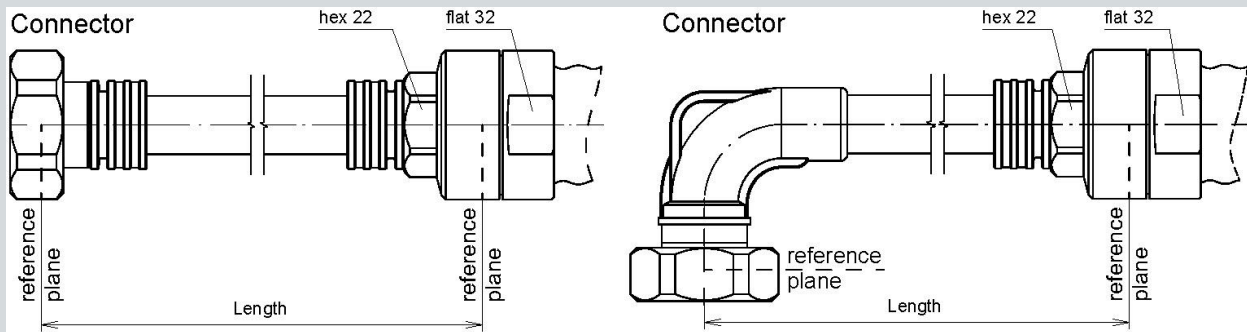
SpinnerFlex® MultiFit Jumper SF 1/2"-50-PE; SF 1/2"-50-FR and SF 1/2"-50-CPR



Electrical Specification				
Impedance	50 Ω			
IM3 (2 x 20 W) ¹⁾	≤ -156 dBc / typ. -165 dBc			
VSWR ^{1) 2)}	Length ≤ 6 m		Length > 6 m	
Frequency range	straight/ straight	straight/ right angle	straight/ straight	straight/ right angle
≤ 960 MHz	≤ 1.05 typ. 1.03	≤ 1.06 typ. 1.04	≤ 1.07 typ. 1.04	≤ 1.08 typ. 1.05
≤ 2,200 MHz	≤ 1.06 typ. 1.05	≤ 1.08 typ. 1.06	≤ 1.08 typ. 1.06	≤ 1.10 typ. 1.07
≤ 2,700 MHz	≤ 1.10 typ. 1.06	≤ 1.12 typ. 1.07	≤ 1.12 typ. 1.07	≤ 1.14 typ. 1.08
≤ 3,800 MHz	≤ 1.12 typ. 1.10	≤ 1.14 typ. 1.11	≤ 1.14 typ. 1.11	≤ 1.16 typ. 1.12
¹⁾ The specified values are subject to the immaculate assembly of the approved feeder cables:				
	SPINNER	SpinnerFlex® LF7/8"-50		
	Acome	HPL50-7/8 ALU, HPL50-7/8 F, HPL50-7/8 LA		
	Andrew	AL5-50, AVA5-50, VXL5-50		
	Draka	RFA 7/8"-50, RFA 7/8"-50 AL, RFE 7/8"-50		
	Eupen	EA5-50 Aluminum, EC5-50-A, EC5-50-HF		
	Hansen	RF 50 7/8"		
	Hengxin	HCTAY-50-22		
	Leoni	FlexLine 7/8" R Low Loss		
	LS Cables	LHF 22D, HFC 22D		
	RFS	LCF 78-50 A, LCF 78-50 L, UCF 78-50 A, UCF 78-50 L		
²⁾ The given VSWR values are maintained within all global cellular frequency bands.				
	960 MHz	2,200 MHz	2,700 MHz	3,800 MHz
Insertion loss, nominal <small>(20 °C cable temperature values without connectors, typ. connector attenuation is ≤ 0.01 dB)</small>	11.56 dB/100m	18.64 dB/100m	21.06 dB/100m	25.90 dB/100m
max. Power rating <small>(40 °C ambient temperature)</small>	0.91 kW	0.56 kW	0.49 kW	0.42 kW

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Mechanical Specification								
Minimum bending radius	Single / repeated bending radius 25 mm / 32 mm							
Crush resistance	20.4 N/mm							
Recommended clamp spacing	800 mm							
Cable jacket	PE black (grey jacket available on request)							
Nominal outer jacket diameter	13.7 mm							
Connector	Material				Surface			
Inner conductor	Cu-alloy				Ag-plated			
Outer conductor	Cu-alloy				Ag- or CuSnZn-plated			
Other metal parts	Cu-alloy				Ni-, Sn- or CuSnZn-plated			
Insulation	PTFE, PE							
Sealing	Silicone rubber							
Installation instruction	M32110							
Handling instruction	M30804							
Included in delivery	Cutting guide, installation instructions							
Length definition								
Length [m]	> 0.5 - 1.0	> 1.0 - 1.5	> 1.5 - 2.5	> 2.5 - 4.0	> 4.0 - 6.0	> 6.0 - 10.0	> 10.0 - 15.0	> 15.0 - 20.0
Tolerances [mm]	± 10	± 15	± 25	± 40	± 60	± 100	± 150	± 200



Environmental Specification			
Degree of protection	IP 68 (0.1 bar / 6 hours / unmated) IP 68 (1 bar / 1 hour / mated)		
Recommended temperature range	Storage	Installation	Operation
SF 1/2"-50-PE	-70 °C to +85 °C	-40 °C to +60 °C	-55 °C to +85 °C
SF 1/2"-50-FR	-30 °C to +80 °C	-25 °C to +60 °C	-30 °C to +80 °C
SF 1/2"-50-CPR	-30 °C to +80 °C	-15 °C to +60 °C	-30 °C to +80 °C
Cable jacket	Halogen free acc. to IEC 60754-1 and IEC 60754-2		
All jacket types (PE, FR and CPR)	Fire retardant acc. to IEC 60332-1, IEC 60332-3.C, IEC 61034 and UL 1581-1991		
SF 1/2"-50-FR	Fire class: B2ca, s1a, d0, a1 acc. to CPR: EN 50575		
SF 1/2"-50-CPR	Fire class: B2ca, s1a, d0, a1 acc. to CPR: EN 50575		
RoHS	compliant to directive 2011/65/EU and amendment (EU) 2015/863		



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Sales article numbers

Jumper MultiFit	Cable Type	Cable Size	Cable Jacket	Connector	Feeder Connection	Length	Unit	Length
JM	S	12	Z	-	XZ	L78	-	X Z X
Currently only SF 1/2" available		Blank for PE		Please specify XZ combination for connector	Currently only LF 7/8" available			
Fire retardant			F					
Construction Products Regulation (CPR)			C					
Gray			G					
X = Connector system		Z = Connector style		X	Z			
7-16		Male		7	M			
4.1-9.5		Male right angle		41	R			
N		Female (right angle)		N	F(R)			
		Female bulkhead (right angle)			B(R)			
		Female four-hole flange (right angle)			P(R)			
4.3-10		Male; screw		43	MS			
2.2-5		Male; hand screw		22	MH			
NEX10®		Male; push-pull			MP			
		Male right angle; screw			RS			
		Male right angle; hand screw			RH			
		Male right angle; push-pull			RP			
		Female (right angle)			F(R)			
		Female bulkhead (right angle)			B(R)			
		Female four-hole flange (right angle)			P(R)			
Length in meters/feet (max. length from 0.5 m - 3 m/3 ft. - 10 ft., depending on unit specified)								
Meters								M
Feet								F
Length in decimeters/inch (depending on unit specified)								

Examples:

- JMS12-7ML78-2M5 (SF 1/2" jumper with 7-16 male and assemble to feeder LF 7/8"; length 2.5 meter)
- JMS12-43MSL78-3F2 (SF 1/2" jumper with 4.3-10 male screw type and assemble to feeder LF 7/8"; length 3 feet + 2 inch)
- JMS12F-7ML78-1M (SF 1/2" FR jumper with 7-16 male and assemble to feeder LF 7/8", length 1.0 meter)

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7-16 connector system (according IEC 61169-4)

Plug straight	Plug right angle	Socket

4.3-10 connector system (according IEC 61169-54)

Plug straight (screw)	Plug right angle (screw)	Socket
Plug straight (hand-screw)	Plug right angle (hand-screw)	
Plug straight (push pull)	Plug right angle (push pull)	

Dimensions in mm, values above are maximum dimensions and can vary slightly dependent on the cable clamp used.

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4.1-9.5 connector system (according IEC 60169-11)

Plug straight	Plug right angle	

N connector system (according IEC 61169-16)

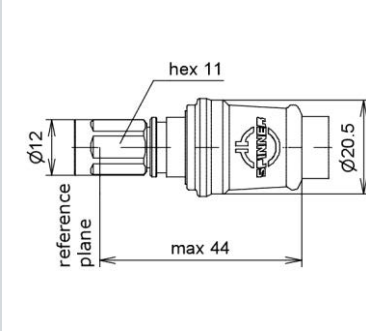
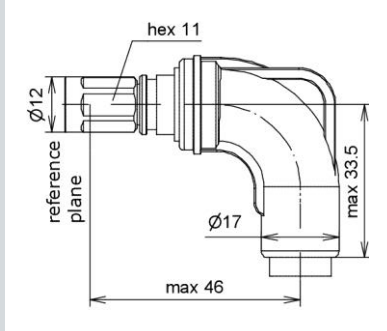
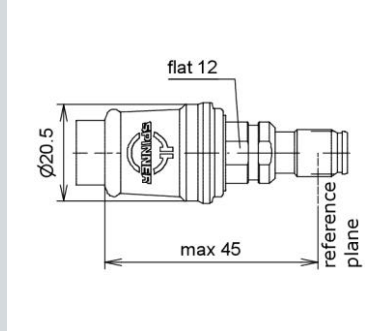
Plug straight	Plug right angle	Socket

2.2-5 connector system (according IEC 61169-66)

Plug straight	Plug right angle	

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NEX10 connector system (IEC 61169-71)		
Plug straight	Plug right angle	Socket
		

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