

Seriflex Jumper SX250-50; SX250-50-FEP and SX250-50-HFR (RG401/U)



At SPINNER, you have the option of ordering customized jumpers flexibly and in virtually unlimited variety, according to your particular project requirements. Simply specify the cable type, length, connector combination and quantity when ordering.

A compilation of the most common connectors for this cable type is shown on pages 4 ff.

Electrical Specification				
Impedance	50 Ω			
IM3 (2 x 20 W) <sup>1)</sup>	≤ -150 dBc typ.			
1) Static measurement, Jumper cables with different IM3 values are available on request.				
VSWR <sup>2)</sup>	Length ≤ 2.5 m		Length > 2.5 m	
Frequency range				
≤ 960 MHz	≤ 1.07		≤ 1.09	
≤ 2,200 MHz	≤ 1.10		≤ 1.12	
≤ 2,700 MHz	≤ 1.15		≤ 1.17	
≤ 3,800 MHz	≤ 1.20		≤ 1.22	
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 (20°C cable temperature, values without connectors, typ. connector attenuation is ≤ 0.01 dB)	24.4 dB/100m	40.3 dB/100m	45.7 dB/100m	56.2 dB/100m
max. Power rating (40 °C ambient temperature)				
SX250-50 and SX250-50-FEP	1.08 kW	0.68 kW	0.60 kW	0.50 kW
SX250-50-HFR	0.27 kW	0.17 kW	0.15 kW	0.12 kW

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Mechanical Specification						
Minimum bending radius	Single / repeated bending radius 40 mm / 120 mm					
Cable jacket / Nominal outer diameter:						
SX250-50	none / 6.4 mm					
SX250-50-FEP	FEP / 6.9 mm					
SX250-50-HFR	HFR / 7.6 mm					
Connector	Material			Surface		
Inner conductor	Cu-alloy			Ag-plated		
Outer conductor	Cu-alloy			Ag-plated		
Other metal parts	Cu-alloy			Ni-plated		
Insulation	PTFE					
Sealing	Silicone rubber					
Installation instruction	M30811					
Length						
Length [m]	≤ 0.5	> 0.5 – 1.0	> 1.0 – 1.5	> 1.5 – 2.5	> 2.5 – 4.0	> 4.0 – 6.0
Tolerances [mm]	± 5	± 10	± 15	± 25	± 40	± 60
<p>The diagram shows two configurations of the jumper cable. The left configuration shows Connector 1 on the left and Connector 2 on the right. The right configuration shows Connector 1 on the left and Connector 2 on the right, but with a 90-degree bend at the Connector 2 end. In both cases, vertical lines indicate the 'reference plane' for each connector, and a horizontal double-headed arrow indicates the 'Length' of the cable between these planes.</p>						

Environmental Specification			
Degree of protection	IP 50		
Recommended temperature range	Storage	Installation	Operation
SX250-50	-65 °C to +180 °C	-20 °C to +70 °C	-65 °C to +165 °C
SX250-50-FEP	-65 °C to +180 °C	-20 °C to +70 °C	-65 °C to +180 °C
SX250-50-HFR	-40 °C to +80 °C	-20 °C to +60 °C	-40 °C to +80 °C
Cable jacket			
SX250-50-FEP	Fire retardant acc. to IEC 60332-1-2, IEC 60332-3-24, IEC 61034-2 and UL 1581 VW-1		
SX250-50-HFR	Fire retardant acc. to IEC 60332-1-2 and IEC 61034-2		
RoHS	compliant to directive 2011/65/EU and amendment (EU) 2015/863		

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Sales product numbers

Jumper	Cable Type	Cable Size	Cable Jacket	Connector 1	Connector 2	Length	Unit	Length	Extra Features		
J	X	Z	X	-	XZ	XZ	-	X	Z	X	-Z
Seriflex	X		Blank for FEP	Any combination of connectors below is possible. Please specify an XZ combination for connectors 1 and 2. In case of pigtail leave blank for connector 2					Leave blank if not applicable		
250-50		250									
141-50		141									
086-50		086									
No Jacket			N								
Halogen Free			H								
X =	Z =			X	Z						
Connector System	Connector Style										
7-16	Male			7	M						
4.1-9.5	Male right angle			41	R						
N	Female (right angle)			N	F(R)						
TNC	Female bulkhead (r. a.)			T	B(R)						
SMA	Female four-hole panel (r. a.)			SMA	P(R)						
4.3-10	Male; screw			43	MS						
2.2-5	Male; hand screw			22	MH						
NEX10®	Male; push-pull			X	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 panel (right angle)				P(R)						
Length in meters/feet (depending on unit specified)											
Meters as unit							M				
Feet as unit							F				
Length in decimeters/inches (depending on unit specified)											
Customized Label										L	
Jumper set										S	

Sales product numbers – Examples for Jumper

- **JX250-7M43RS-2M5**  
Jumper SX250-50FEP, connectors 7-16 male and 4.3-10 male right angle screw type, length 2.5 meter
- **JX141-43MS-1F5**  
Jumper SX141-50FEP, connectors 4.3-10 male screw type and pigtail; length 1 feet 5 inch

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

Plug (7M)	Plug right angle (7R)	Socket (7B)

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

Plug screw (43MS)	Plug right angle screw (43RS)	Socket (43B)
<p>Plug hand-screw (43MH)</p>		
<p>Plug push pull (43MP)</p>		

Dimensions in mm

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<b>N connector system (according to IEC 61169-16)</b>		
Plug (NM)	Plug right angle (NR)	Socket (NB)

<b>2.2-5 connector system (according to IEC 61169-66)</b>		
Plug screw (22MS)	Plug right angle (22R)	Socket (22B)

<b>NEX10 connector system (according to IEC 61169-71)</b>		
Plug screw (XMS)		Socket (XB)

Dimensions in mm