

# PROVEN PERFORMANCE. AT THE RIGHT PRICE. AVAILABLE WHEN YOU NEED IT.

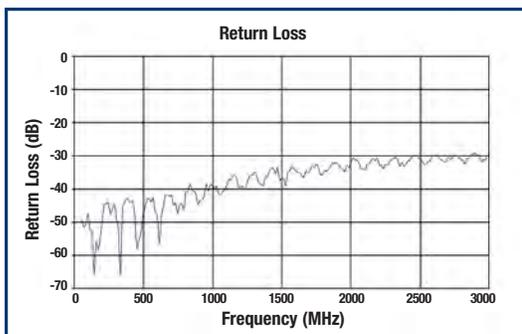


## THE LEADING CHOICE OF THE WORLD'S MAJOR CARRIERS...OVER 2 MILLION JUMPERS SOLD LAST YEAR

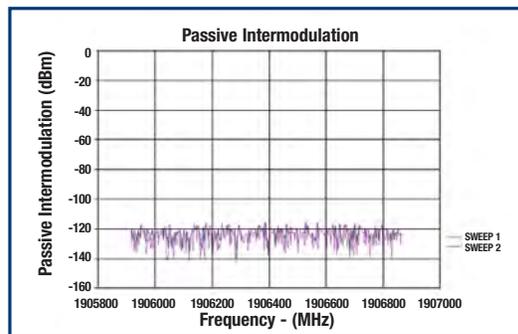
Our factory-assembled jumpers are the finest quality available on the market. The same quality and reliability known by our customers in Europe and Asia is now manufactured and available direct from our Lancaster, PA facility.

### Features and Benefits

- Specially developed connectors using advanced soldering technology for the inner and outer conductor guarantee superior electrical characteristics
- Injection "over-molded" boot sealing on the cable jacket ensures a water tight seal under extreme climatic conditions
- 100% electrical testing for VSWR and PIM provides optimum performance
- Premium performance FlexLine® Cables are used exclusively on all assemblies offering high flexibility and small bending radius
- Available in any cable length with a large variety of connector combinations
- Low intermodulation – IM3 ≤ -117 dBm (3<sup>rd</sup> order product with 2 x 43 dBm carriers)
- Cable jackets of flame-retardant, halogen-free material (FRNC) are available
- Excellent return loss of ≥ 28 dB up to 2200 MHz



Typical Return Loss Sweep of a 6 ft. 1/2" R jumper with 7-16 DIN male connectors



Typical Passive Intermodulation Performance of a 6 ft. 1/2" R jumper with 7-16 DIN male connectors

# Rosenberger

## Rosenberger Site Solutions, LLC

### Technical Specifications

#### Electrical data

Type	3/8" S	1/2" S	1/2" R
Frequency range		DC to 2700 MHz	
Peak power rating	13 kW	19 kW	58 kW
Nominal impedance		50	
Return loss <sup>1</sup>	30 – 1000 MHz	≥30 dB	
	1000 – 2200 MHz	≥28 dB	
	2200 – 2700 MHz	≥26 dB	
Insertion loss	900 MHz	0.04 dB/ft (cable)	0.03 dB/ft (cable)
		+ 0.10 dB (connectors)	+ 0.10 dB (connectors)
	1800 MHz	0.06 dB/ft (cable)	0.05 dB/ft (cable)
		+ 0.10 dB (connectors)	+ 0.10 dB (connectors)
	2200 MHz	0.07dB/ft (cable)	0.05 dB/ft (cable)
		+ 0.10 dB (connectors)	+ 0.10 dB (connectors)
Relative velocity of propagation		82 % to – 84 %	
Intermodulation at	900 MHz + 1800 MHz + 2200 MHz – 117 dBm (3 <sup>rd</sup> order product with 2 x 43 dBm carriers)		

#### Mechanical data

Type	3/8" S	1/2" S	1/2" R
Bending radius, repeated bending	25 mm (0.98 in)	30 mm (1.18 in)	120 mm (4.72 in)
Bending radius, single bending	12.5 mm (0.49 in)	15 mm (0.59 in)	70 mm (2.76 in)
Max. tensile strength	600 N	1000 N	1200 N

#### Environment

Type	3/8" S	1/2" S	1/2" R
Waterproof to safety class (IEC 529)		IP 682 with coupled interface	
Max. operating temperature range		– 40° C to + 80° C (– 40° F to +176° F)	
Installation temperature range		– 15° C to + 60° C (+5° F to +140° F)	
Mechanical oscillation		MIL STD 202 Meth. 204/B	
Shock resistance		MIL STD 202 Meth. 213/B	
Corrosion resistance		MIL STD 202 Meth. 101	

#### Materials

Type	3/8" S	1/2" S	1/2" R
Cable	Inner conductor	Copper clad aluminum wire	
	Dielectric	Highly foamed polyethylene	
	Outer conductor	Spiral corrugated	Spiral corrugated
		Copper tube	Annular corrugated
		Copper tube	Copper tube
Jacket options	FRNC and PE, black and light grey (RAL 7004)		
Connector	Inner conductor	Brass / CuBe, silver-plated	
	Outer conductor	Brass, silver-plated	
	Insulator	PP / PE / PTFE	
	Sealing	Hot-polyamide moulding	

<sup>1</sup> Magnitude in dB

<sup>2</sup> All FlexLine connectors exceed the IP68 Ingress Protection standard. Each connector is designed and tested to withstand 2.5 bars (36 psi) of pressure. The excellent mechanical and climatic properties of FlexLine connectors insure long-term durability and performance in outdoor installations.

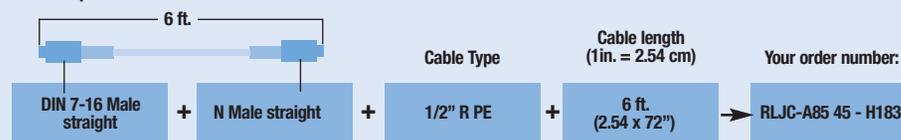
### Order number generator for custom made jumper cables

Your order number:

Color	+	Connector 1	+	Connector 2	+	Cable Type	+	Length	=	RLJC	-A	85	45	-H	183
Black	A	N female	15	N female	15	Flexline 3/8" S FRNC B		1ft.							
		Straight		Straight		Flexline 1/2" S FRNC C		2ft.							
		N male	40	N male	40	Flexline 1/2" R FRNC D		3ft.							
		Right angle		Right angle		Flexline 3/8" S PE F		4ft.							
		Straight	45	Straight	45	Flexline 1/2" S PE G		6ft.							
		DIN 7-16 female	50	DIN 7-16 female	50	Flexline 1/2" R PE H		8ft.							
		Right angle		Right angle				10ft.							
		Straight	55	Straight	55			Customer's needs?							
		DIN 7-16 male	80	DIN 7-16 male	80										
		Right angle		Right angle											
		Straight	85	Straight	85										

FlexLine jumper cable  
Jacket color  
Connector 1. side  
Connector 2. side  
Cable type  
Length in cm

For example:



Rosenberger Site Solutions, LLC

P.O. Box 8817. Lake Charles, LA 70606

Ph. 1.866.598.5250 Fax: 337.598.5290

E-mail: rlss@rlss.us

www.RLSS.us