

Transmission Line



Coaxial Cables



Jumper Assemblies



Connectors



Surge Arrestors



Test & Measurement



RET Cable Assemblies

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SLink™ Flexible Corrugated Cables

Rosenberger SLink™ flexible cables are designed to provide low-loss connections between the base station and antennas. The corrugated outer conductor construction guarantees optimal shielding, low attenuation and provides the flexibility for easy shipping, handling and installation.

With high reliability and outstanding electrical values, Rosenberger SLink™ flexible cables guarantee trouble-free operation for the most demanding requirements. All Rosenberger SLink™ cables are specifically designed to have outstanding mechanical and environmental properties that are ideal for outdoor installations.

The inner conductor consists of either copper wire, copper-clad aluminum wire or a smooth or corrugated copper tube. The outer conductor of each cable is made of a welded copper tube with ring shaped (annular) corrugations and marked accordingly with the letter "R". The dielectric consists of highly foamed polyethylene. Rosenberger SLink™ flexible cables are offered with outer jackets made of either polyethylene or flame-retardant, halogen-free materials.



SLink™ 1/4" R Flexible Coaxial Cable



Materials and Dimensions	
Inner conductor - copper clad aluminum wire	2.6 mm / 0.102 in
Dielectric - foamed PE	6.4 mm / 0.252 in
Dia over outer conductor - corrugated copper tube	7.6 mm / 0.299 in
Diameter over outer jacket	9.5 mm / 0.374 in

Mechanical Specification	
Cable weight	94 kg/km (approx.)
Tensile strength	560 N
Min. bending radius (single)	50 mm
Min. bending radius (repeated)	120 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	2 Nm
Flat plate crush strength	10 N/mm
Recommended hanger spacing	0.6 m

Environmental Specification	
Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
2011/65EU (RoHS)	compliant

Return Loss	
Return loss(Band A)	≤ -26dB 800 to 1000MHz
Return loss(Band B)	≤ -24dB 1700 to 1900MHz
Return loss(Band C)	≤ -24dB 1900 to 2200MHz
Return loss(Band D)	≤ -24dB 2200 to 2500MHz
Return loss(Band E)	≤ -24dB 2500 to 3000MHz

Cable assemblies with a length up to 20m should meet the following requirement:	
Return Loss	≤ -30dB @ DC-1000MHz ≤ -28dB @ 1000 -2500MHz ≤ -26dB @ 2500-3000MHz
Intermodulation (3rd order, 2 x 20W)	≤ -117dBm @ 910MHz or 1800MHz (static and dynamic)

Electrical Specification	
Impedance	50 ± 1 Ω
Relative Velocity of Propagation	85%
Capacitance	78.5 pF/m
Inductance	0.195 μH/m
Maximum Operating Frequency	15.0 GHz
Cut-off Frequency	19.0 GHz
Peak Power Rating	7.5 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	2200V
Jacket Spark Test Voltage	5000 Vrms
Inner Conductor DC-resistance	≤ 6.05 Ω/km
Outer Conductor DC-resistance	≤ 4.45 Ω/km

Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	5.14	1.92
200	7.50	1.40
300	8.50	1.20
400	9.00	1.09
450	9.14	1.08
800	12.7	0.78
900	13.3	0.74
1000	14.1	0.70
1800	19.5	0.51
2000	20.6	0.49
2200	21.8	0.45
2500	23.4	0.42
2700	28.0	0.36
3000	28.3	0.35

Maximum attenuation value shall be 105% of the nominal attenuation value. Other frequencies available upon request.

Standard Conditions	
Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Ordering Info.

Part #	Description	UOM
RLCX-SL014R PE	SLink™ 1/4" R Coaxial Cable with Standard polyethylene jacket	Per Ft.
RLCX-SL014R FRNC	SLink™ 1/4" R Coaxial Cable with Flame retardant, non corrosive jacket (FRNC)	Per Ft.

SLink™ 3/8" R Flexible Coaxial Cable



Materials and Dimensions	
Inner conductor - copper clad aluminum wire	3.1 mm / 0.122 in
Dielectric - foamed PE	8.3 mm / 0.326 in
Dia over outer conductor - corrugated copper tube	9.5 mm / 0.374 in
Diameter over outer jacket	11.5 mm / 0.453 in

Mechanical Specification	
Cable weight	127 kg/km (approx.)
Tensile strength	700 N
Min. bending radius (single)	50 mm
Min. bending radius (repeated)	110 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	2.5 Nm
Flat plate crush strength	20 N/mm
Recommended hanger spacing	0.6 m

Environmental Specification	
Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
2011/65EU (RoHS)	compliant

Return Loss	
Return loss(Band A)	≤ -26dB 800 to 1000MHz
Return loss(Band B)	≤ -24dB 1700 to 1900MHz
Return loss(Band C)	≤ -24dB 1900 to 2200MHz
Return loss(Band D)	≤ -24dB 2200 to 2500MHz
Return loss(Band E)	≤ -24dB 2500 to 3000MHz

Cable assemblies with a length up to 20m should meet the following requirement:	
Return Loss	≤ -30dB @ DC-1000MHz ≤ -28dB @ 1000 -2500MHz ≤ -26dB @ 2500-3000MHz
Intermodulation (3rd order, 2 x 20W)	≤ -117dBm @ 910MHz or 1800MHz (static and dynamic)

Electrical Specification	
Impedance	50 ± 1 W
Relative Velocity of Propagation	85%
Capacitance	78 pF/m
Inductance	0.195 μH/m
Maximum Operating Frequency	12.0 GHz
Cut-off Frequency	15.1 GHz
Peak Power Rating	12.8 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	2500V
Jacket Spark Test Voltage	5000 Vrms
Inner Conductor DC-resistance	≤ 3.46 Ω/km
Outer Conductor DC-resistance	≤ 3.50 Ω/km

Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	3.42	2.23
200	4.92	1.90
300	6.12	1.45
400	6.90	1.44
450	6.91	1.43
800	9.50	1.04
900	9.92	0.99
1000	10.5	0.94
1800	14.4	0.69
2000	15.2	0.65
2200	16.0	0.62
2500	17.1	0.58
2700	18.8	0.53
3000	18.9	0.52

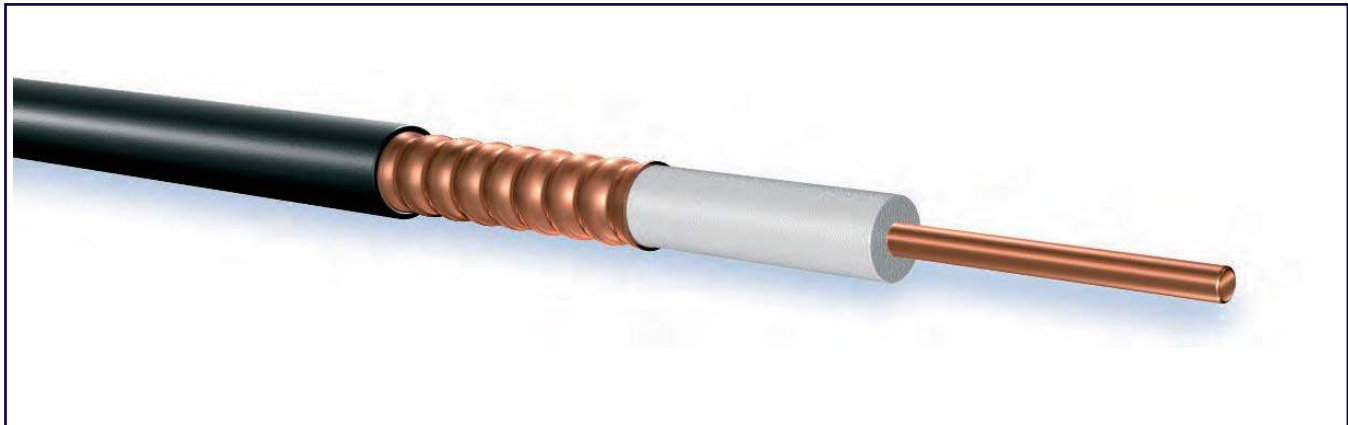
Maximum attenuation value shall be 105% of the nominal attenuation value. Other frequencies available upon request.

Standard Conditions	
Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Ordering Info.

Part #	Description	UOM
RLCX-SL038R PE	SLink™ 3/8" R Coaxial Cable with Standard polyethylene jacket	Per Ft.
RLCX-SL038R FRNC	SLink™ 3/8" R Coaxial Cable with Flame retardant, non corrosive jacket (FRNC)	Per Ft.

SLink™ 1/2" R Flexible Coaxial Cable



Materials and Dimensions

Inner conductor - copper clad aluminum wire	4.8 mm / 0.189 in
Dielectric - foamed PE	12.1 mm / 0.476 in
Dia over outer conductor - corrugated copper tube	13.8 mm / 0.543 in
Diameter over outer jacket	15.9 mm / 0.626 in

Mechanical Specification

Cable weight	210 kg/km (approx.)
Tensile strength	1150 N
Min. bending radius (single)	50 mm
Min. bending radius (repeated)	125 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	5 Nm
Flat plate crush strength	20 N/mm
Recommended hanger spacing	0.8 m

Environmental Specification

Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
2011/65EU (RoHS)	compliant

Return Loss

Return loss(Band A)	≤ -26dB 800 to 1000MHz
Return loss(Band B)	≤ -24dB 1700 to 1900MHz
Return loss(Band C)	≤ -24dB 1900 to 2200MHz
Return loss(Band D)	≤ -24dB 2200 to 2500MHz
Return loss(Band E)	≤ -24dB 2500 to 3000MHz

Cable assemblies with a length up to 20m should meet the following requirement:

Return Loss	≤ -30dB @ DC-1000MHz ≤ -28dB @ 1000 -2500MHz ≤ -26dB @ 2500-3000MHz
Intermodulation (3rd order, 2 x 20W)	≤ -117dBm @ 910MHz or 1800MHz (static and dynamic)

Electrical Specification

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	88%
Capacitance	76 pF/m
Inductance	0.190 μH/m
Maximum Operating Frequency	8.8 GHz
Cut-off Frequency	10.0 GHz
Peak Power Rating	40 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	6000V
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor DC-resistance	≤ 1.5 Ω/km
Outer Conductor DC-resistance	≤ 2.3 Ω/km

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	2.15	3.94
200	3.08	2.75
300	3.81	1.99
400	4.46	1.80
450	4.70	1.80
800	6.35	1.33
900	6.75	1.25
1000	7.20	1.18
1800	9.90	0.86
2000	10.50	0.81
2200	11.10	0.77
2500	11.95	0.73
2700	12.47	0.69
3000	13.20	0.65

Maximum attenuation value shall be 105% of the nominal attenuation value. Other frequencies available upon request.

Standard Conditions

Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Ordering Info.

Part #	Description	UOM
RLCX-SL012R PE	SLink™ 1/2" R Coaxial Cable with Standard polyethylene jacket	Per Ft.
RLCX-SL012R FRNC	SLink™ 1/2" R Coaxial Cable with Flame retardant, non corrosive jacket (FRNC)	Per Ft.

Ultra Low Loss Corrugated Cables

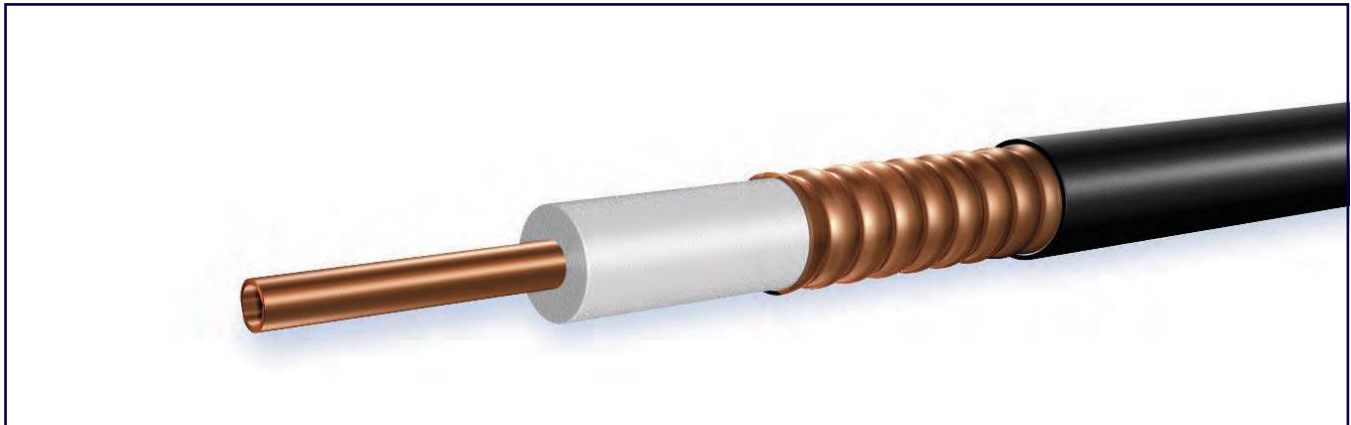
Rosenberger SLink™ 7/8" R, 1-1/4" R and 1-5/8" R Ultra Low Loss cables are specifically designed to correspond to the requirements of the mobile, cellular and broadcast networks. They deliver excellent performance for connections between the base station and antennas.

The Ultra Low Loss cables offer exceptional attenuation values with losses of less than 1 dB for 100 feet at 1800 MHz when using Rosenberger SLink™ 1-5/8" R cable. The transmission characteristics of Ultra Low Loss cables have been improved significantly while still maintaining the outer dimensions to suit all installation material and connectors.

The inner conductors consist of a smooth copper tube for 7/8" R and 1-1/4" R and a corrugated copper tube for 1-5/8" R. The outer conductor of each cable is made of a welded copper tube with ring shaped (annular) corrugations and marked accordingly with the letter "R" and "low loss". The dielectric consists of highly foamed polyethylene. Rosenberger SLink™ Ultra Low Loss flexible cables are offered with outer jackets made of either polyethylene or flame-retardant, halogen-free materials.



SLink™ 7/8" R Ultra Low Loss Coaxial Cable



Materials and Dimensions	
Inner conductor - Copper tube	9.25 mm / 0.364 in
Dielectric - foamed PE	22.8 mm / 0.898 in
Outer conductor - Annularly corrugated copper tube	24.7 mm / 0.972 in
Diameter over outer jacket - Polyethylene (PE), Black, UV resistant, halogen free	27.4 mm / 1.079 in

Mechanical Specification	
Cable weight	425 kg/km (approx.)
Tensile strength	1450 N
Min. bending radius (single)	120 mm
Min. bending radius (repeated)	250 mm
Number of bends, minimum (typical)	15 (50)
Recommended hanger spacing	1.0 m

Environmental Specification	
Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
2011/65EU (RoHS)	compliant

Return Loss	
Return Loss	≤ -26dB @ 698 to 960 MHz ≤ -24dB @ 1710 to 2200 MHz
Intermodulation IM3 (GSM-UMTS) maxi.	-158 dBc (-163 dBc typical)

Electrical Specification	
Impedance	50 ± 1 Ω
Relative Velocity of Propagation	90%
Capacitance (1 kHz)	73.5 ± 1.5 pF/m
Maximum Operating Frequency	5 GHz
Cut-off Frequency	5.3 GHz
Peak Power Rating	95 kW
Insulation Resistance	≥ 10 GΩ x km
Operating Voltage	3000 Vrms
DC Breakdown Voltage	10000 V
Jacket Spark Test Voltage	6300 Vrms
Inner Conductor DC-resistance	≤ 1.55 Ω/km
Outer Conductor DC-resistance	≤ 1.40 Ω/km

Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
150	1.37	7.1
450	2.45	3.97
824	3.42	2.86
900	3.56	2.72
1000	3.78	2.57
1700	5.17	1.91
1800	5.25	1.84
1900	5.41	1.79
2000	5.58	1.7
2200	5.89	1.65
2500	6.34	1.53
3000	7.06	1.37
3500	7.73	1.25
3800	8.12	1.18

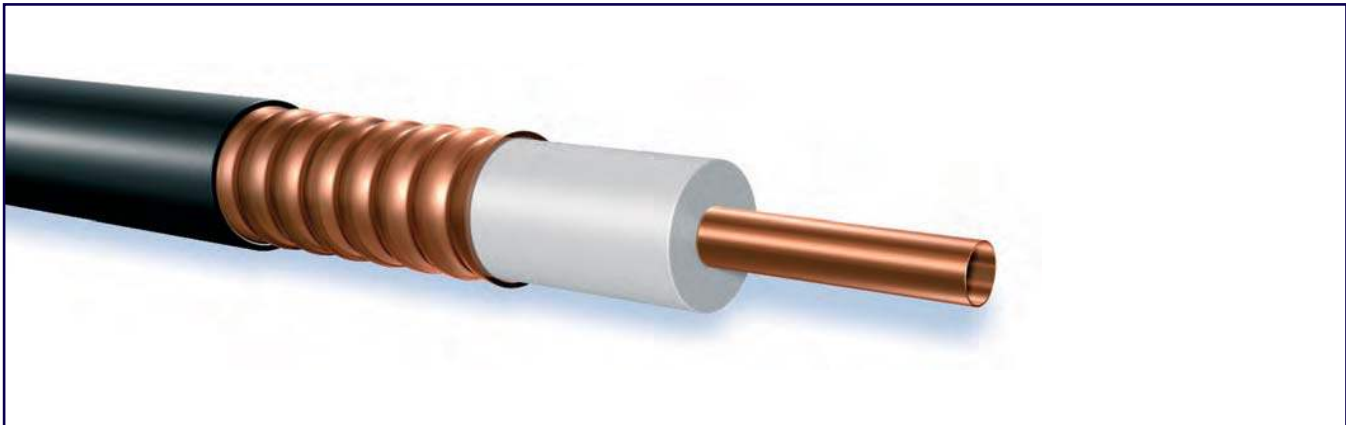
Maximum attenuation value shall be 105% of the nominal attenuation value. Other frequencies available upon request.

Standard Conditions	
Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Ordering Info.

Part #	Description	UOM
RLCX-SL078R U PE	SLink™ 7/8" R Ultra Low Loss Coaxial Cable with Standard polyethylene jacket	Per Ft.
RLCX-SL078R U FRNC	SLink™ 7/8" R Ultra Low Loss Coaxial Cable with Flame retardant, non corrosive jacket (FRNC)	Per Ft.

SLink™ 1-1/4" R Ultra Low Loss Coaxial Cable



Materials and Dimensions	
Inner conductor - Copper tube	13.1 mm / 0.516 in
Dielectric - foamed PE	32.5 mm / 1.280 in
Outer conductor - Annularly corrugated copper tube	35.7 mm / 1.406 in
Diameter over outer jacket - Polyethylene (PE), Black, UV resistant, halogen free	39.5 mm / 1.555 in

Mechanical Specification	
Cable weight	852 kg/km (approx.)
Tensile strength	2500 N
Min. bending radius (single)	200 mm
Min. bending radius (repeated)	380 mm
Number of bends, minimum (typical)	15 (50)
Recommended hanger spacing	1.2 m

Environmental Specification	
Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
2002/95/EC (RoHS)	compliant

Return Loss	
Return Loss	≤ -26dB @ 698 to 960 MHz ≤ -24dB @ 1710 to 2200 MHz
Intermodulation IM3 (GSM-UMTS) maxi.	-158 dBc (-163 dBc typical)

Electrical Specification	
Impedance	50 ± 1 Ω
Relative Velocity of Propagation	88%
Capacitance (1 kHz)	75 ± 1.5 pF/m
Maximum Operating Frequency	3 GHz
Cut-off Frequency	3.45 GHz
Peak Power Rating	181 kW
Insulation Resistance	≥ 10 GΩ x km
Operating Voltage	4300 Vrms
DC Breakdown Voltage	10000 V
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor DC-resistance	≤ 1.10 Ω/km
Outer Conductor DC-resistance	≤ 0.78 Ω/km

Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
30	0.43	23.68
80	0.72	14.13
150	1	10.07
450	1.83	5.46
824	2.56	3.84
900	2.69	3.64
1000	2.85	3.42
1800	4.03	2.38
2000	4.28	2.23
2200	4.54	2.1
2500	4.92	1.93
3000	5.49	1.72
3400	5.92	1.58

Maximum attenuation value shall be 105% of the nominal attenuation value.
Other frequencies available upon request.

Standard Conditions	
Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Ordering Info.

Part #	Description	UOM
RLCX-SL114R U PE	SLink™ 1-1/4" R Ultra Low Loss Coaxial Cable with Standard polyethylene jacket	Per Ft.
RLCX-SL114R U FRNC	SLink™ 1-1/4" R Ultra Low Loss Coaxial Cable with Flame retardant, non corrosive jacket (FRNC)	Per Ft.

SLink™ 1-5/8" R Ultra Low Loss Coaxial Cable



Materials and Dimensions	
Inner conductor - Helically corrugated Copper tube	17.7 mm / 0.697 in
Dielectric - foamed PE	42.6 mm / 1.677 in
Outer conductor - Annularly corrugated copper tube	46.4 mm / 1.827 in
Diameter over outer jacket - Polyethylene (PE), Black, UV resistant, halogen free	50.0 mm / 1.969 in

Mechanical Specification	
Cable weight	1100 kg/km (approx.)
Tensile strength	2400 N
Min. bending radius (single)	300 mm
Min. bending radius (repeated)	500 mm
Number of bends, minimum (typical)	15 (50)
Recommended hanger spacing	1.2 m

Environmental Specification	
Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
2002/95/EC (RoHS)	compliant

Return Loss	
Return Loss	≤ -26dB @ 698 to 960 MHz ≤ -24dB @ 1710 to 2200 MHz
Intermodulation IM3 (GSM-UMTS) maxi.	-158 dBc (-163 dBc typical)

Electrical Specification	
Impedance	50 ± 1 Ω
Relative Velocity of Propagation	90%
Capacitance (1 kHz)	75 ± 1.5 pF/m
Maximum Operating Frequency	2.5 GHz
Cut-off Frequency	2.68 GHz
Peak Power Rating	306 kW
Insulation Resistance	≥ 10 GΩ x km
Operating Voltage	5400 Vrms
DC Breakdown Voltage	15000 V
Jacket Spark Test Voltage	11000 Vrms
Inner Conductor DC-resistance	≤ 1.42 Ω/km
Outer Conductor DC-resistance	≤ 0.65 Ω/km

Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
30	0.36	27.03
80	0.59	16.21
150	0.83	11.61
450	1.47	6.37
824	2.06	4.51
900	2.16	4.29
1000	2.28	4.03
1800	3.17	2.85
2000	3.37	2.67
2200	3.58	2.52
2500	3.83	2.32

Maximum attenuation value shall be 105% of the nominal attenuation value. Other frequencies available upon request.

Standard Conditions	
Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Ordering Info.

Part #	Description	UOM
RLCX-SL158R U PE	SLink™ 1-5/8" R Ultra Low Loss Coaxial Cable with Standard polyethylene jacket	Per Ft.
RLCX-SL158R U FRNC	SLink™ 1-5/8" R Ultra Low Loss Coaxial Cable with Flame retardant, non corrosive jacket (FRNC)	Per Ft.

Super Flexible Corrugated Cables

Rosenberger SLink™ Super flexible cables are designed for use in tight routing spaces. Typical applications include connections inside mobile base stations and jumpers for connecting between the base stations, transmission lines and antennas. Super flexible cables have superior electrical and mechanical performance and are ideal for applications requiring the smallest bending radii, high flexibility, low attenuation, and high shielding. Rosenberger Super flexible cable assemblies achieve the highest standards in the industry, including excellent intermodulation and return loss performance.

The inner conductor consists of copper wire or copper-clad aluminum wire. The outer conductor of each cable is made of a welded copper tube with spiral corrugations and marked accordingly with the letter "S". The Super flexible 7/8" H version is constructed with annular corrugations on the outer conductor. The dielectric consists of highly foamed polyethylene. A special process used to extrude the dielectric makes it easy to strip the cables for efficient assembly of the connectors. Rosenberger SLink™ Super flexible cables are offered with outer jackets made of either polyethylene or flame-retardant, halogen-free materials.



SLink™ 1/4" S Super Flexible Coaxial Cable



Materials and Dimensions	
Inner conductor - copper clad aluminum wire	1.9 mm / 0.075 in
Dielectric - foamed PE	4.4 mm / 0.173 in
Outer conductor - corrugated copper (Helically)	6.4 mm / 0.252 in
Diameter over outer jacket	7.7 mm / 0.303 in

Mechanical Specification	
Cable weight	71 kg/km (approx.)
Tensile strength	600 N
Min. bending radius (single)	13 mm
Min. bending radius (repeated)	25 mm
Number of bends, minimum (typical)	20 (50)
Bending moment	1.5 Nm
Flat plate crush strength	8 N/mm
Recommended hanger spacing	0.6 m

Environmental Specification	
Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
2011/65EU (RoHS)	compliant

Return Loss	
Return loss(Band A)	≤ -26dB 800 to 1000MHz
Return loss(Band B)	≤ -24dB 1700 to 1900MHz
Return loss(Band C)	≤ -24dB 1900 to 2200MHz
Return loss(Band D)	≤ -24dB 2200 to 2500MHz
Return loss(Band E)	≤ -24dB 2500 to 3000MHz

Cable assemblies with a length up to 20m should meet the following requirement:	
Return Loss	≤ -30dB @ DC-1000MHz ≤ -28dB @ 1000 -2500MHz ≤ -26dB @ 2500-3000MHz
Intermodulation (3rd order, 2 x 20W)	≤ -117dBm @ 910MHz or 1800MHz (static and dynamic)

Electrical Specification	
Impedance	50 ± 1 Ω
Relative Velocity of Propagation	83%
Capacitance	80 pF/m
Inductance	0.195 μH/m
Maximum Operating Frequency	20.4 GHz
Cut-off Frequency	25.0 GHz
Peak Power Rating	6.4 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	2000V
Jacket Spark Test Voltage	5000 Vrms
Inner Conductor DC-resistance	≤ 9.8 Ω/km
Outer Conductor DC-resistance	≤ 6.9 Ω/km

Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	5.95	1.15
200	8.36	0.83
300	10.3	0.70
400	12.4	0.55
450	13.1	0.53
800	17.5	0.40
900	18.5	0.37
1000	19.6	0.35
1800	26.9	0.26
2000	28.5	0.24
2200	30.2	0.23
2500	32.3	0.23
2700	33.7	0.23
3000	35.7	0.23

Maximum attenuation value shall be 105% of the nominal attenuation value. Other frequencies available upon request.

Standard Conditions	
Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Ordering Info.

Part #	Description	UOM
RLCX-SL014S PE	SLink™ 1/4" S Super Flexible Coaxial Cable with Standard polyethylene jacket	Per Ft.
RLCX-SL014S FRNC	SLink™ 1/4" S Super Flexible Coaxial Cable with Flame retardant, non corrosive (FRNC) jacket	Per Ft.

SLink™ 3/8" S Super Flexible Coaxial Cable



Materials and Dimensions	
Inner conductor - copper clad aluminum wire	2.6 mm / 0.102 in
Dielectric - foamed PE	6.7 mm / 0.264 in
Outer conductor - corrugated copper (Helically)	9.1 mm / 0.358 in
Diameter over outer jacket	10.2 mm / 0.402 in

Mechanical Specification	
Cable weight	115 kg/km (approx.)
Tensile strength	600 N
Min. bending radius (single)	13 mm
Min. bending radius (repeated)	25 mm
Number of bends, minimum (typical)	20 (50)
Bending moment	2.0 Nm
Flat plate crush strength	15 N/mm
Recommended hanger spacing	0.6 m

Environmental Specification	
Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
2011/65EU (RoHS)	compliant

Return Loss	
Return loss(Band A)	≤ -26dB 800 to 1000MHz
Return loss(Band B)	≤ -24dB 1700 to 1900MHz
Return loss(Band C)	≤ -24dB 1900 to 2200MHz
Return loss(Band D)	≤ -24dB 2200 to 2500MHz
Return loss(Band E)	≤ -24dB 2500 to 3000MHz

Cable assemblies with a length up to 20m should meet the following requirement:	
Return Loss	≤ -30dB @ DC-1000MHz ≤ -28dB @ 1000 -2500MHz ≤ -26dB @ 2500-3000MHz
Intermodulation (3rd order, 2 x 20W)	≤ -117dBm @ 910MHz or 1800MHz (static and dynamic)

Electrical Specification	
Impedance	50 ± 1 W
Relative Velocity of Propagation	83%
Capacitance	81 pF/m
Inductance	0.195 μH/m
Maximum Operating Frequency	13.4 GHz
Cut-off Frequency	16.1 GHz
Peak Power Rating	11.9 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	2500V
Jacket Spark Test Voltage	5000 Vrms
Inner Conductor DC-resistance	≤ 4.76 Ω/km
Outer Conductor DC-resistance	≤ 4.95 Ω/km

Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	4.16	2.00
200	5.96	1.34
300	7.39	1.15
400	8.61	1.14
450	8.73	1.13
800	12.1	0.82
900	12.7	0.78
1000	13.4	0.74
1800	18.4	0.54
2000	19.5	0.51
2200	20.5	0.48
2500	22.1	0.45
2700	24.3	0.41
3000	24.4	0.40

Maximum attenuation value shall be 105% of the nominal attenuation value. Other frequencies available upon request.

Standard Conditions	
Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Ordering Info.

Part #	Description	UOM
RLCX-SL038S PE	SLink™ 3/8" S Super Flexible Coaxial Cable with Standard polyethylene jacket	Per Ft.
RLCX-SL038S FRNC	SLink™ 3/8" S Super Flexible Coaxial Cable with Flame retardant, non corrosive (FRNC) jacket	Per Ft.

SLink™ 1/2" S Super Flexible Coaxial Cable



Materials and Dimensions	
Inner conductor - copper clad aluminum wire	3.6 mm / 0.142 in
Dielectric - foamed PE	9.0 mm / 0.354 in
Outer conductor - corrugated copper (Helically)	12.2 mm / 0.480 in
Diameter over outer jacket	13.4 mm / 0.528 in

Mechanical Specification	
Cable weight	171 kg/km (approx.)
Tensile strength	750 N
Min. bending radius (single)	25 mm
Min. bending radius (repeated)	35 mm
Number of bends, minimum (typical)	20 (50)
Bending moment	3 Nm
Flat plate crush strength	15 N/mm
Recommended hanger spacing	0.8 m

Environmental Specification	
Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
2011/65EU (RoHS)	compliant

Return Loss	
Return loss(Band A)	≤ -26dB 800 to 1000MHz
Return loss(Band B)	≤ -24dB 1700 to 1900MHz
Return loss(Band C)	≤ -24dB 1900 to 2200MHz
Return loss(Band D)	≤ -24dB 2200 to 2500MHz
Return loss(Band E)	≤ -24dB 2500 to 3000MHz

Cable assemblies with a length up to 20m should meet the following requirement:	
Return Loss	≤ -30dB @ DC-1000MHz ≤ -28dB @ 1000 -2500MHz ≤ -26dB @ 2500-3000MHz
Intermodulation (3rd order, 2 x 20W)	≤ -117dBm @ 910MHz or 1800MHz (static and dynamic)

Electrical Specification	
Impedance	50 ± 1 Ω
Relative Velocity of Propagation	83%
Capacitance	80 pF/m
Inductance	0.195 μH/m
Maximum Operating Frequency	10.2 GHz
Cut-off Frequency	13.0 GHz
Peak Power Rating	16 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	2500V
Jacket Spark Test Voltage	5000 Vrms
Inner Conductor DC-resistance	≤ 2.73 Ω/km
Outer Conductor DC-resistance	≤ 3.68 Ω/km

Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	3.31	3.16
200	4.84	2.17
300	6.07	1.71
400	7.11	1.47
450	7.59	1.38
800	10.4	1.01
900	11.2	0.95
1000	11.8	0.89
1800	16.0	0.63
2000	17.2	0.60
2200	18.2	0.56
2500	19.5	0.52
2700	20.5	0.50
3000	21.9	0.48

Maximum attenuation value shall be 105% of the nominal attenuation value. Other frequencies available upon request.

Standard Conditions	
Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Ordering Info.

Part #	Description	UOM
RLCX-SL012S PE	SLink™ 1/2" S Super Flexible Coaxial Cable with Standard polyethylene jacket	Per Ft.
RLCX-SL012S FRNC	SLink™ 1/2" S Super Flexible Coaxial Cable with Flame retardant, non corrosive (FRNC) jacket	Per Ft.

Rosenberger Connectors

Rosenberger SLink™ connectors are available in N and 7-16 DIN series with both male and female interfaces. All connectors are designed for ease of attachment while providing consistent, industry leading performance. Available for corrugated coaxial cable sizes from 1/4" to 1-5/8".

Rosenberger connectors have excellent mechanical and environmental properties that insure long-term durability and performance in outdoor installations. These connectors are designed to exceed the IP68 Ingress standard to withstand 2.5 bars (36 psi) of pressure.

All Rosenberger connectors are coated with a specially selected flash white bronze over silver (OPTARGEN®) plating. This coating is specifically selected to provide protection against oxidation while delivering exceptional intermodulation performance and excellent electrical conductivity.

N Series	
Technical Characteristics	
Nominal impedance	50 Ω
Frequency range	DC to 11 GHz
Insertion loss	0.1 dB
Intermodulation	≤ -117 dBm @ 2 x 20 W
RF Leakage	≤ -128 dB @ 1 GHz
Operating temperature	-45° C to +85° C
Waterproof / Protection	IP 68
Plating Outer Contact	white bronze
Plating Center Contact	Silver
Return Loss	
1/4", 3/8", 1/2", 7/8", 1-1/4", 1-5/8"	≥35 dB DC to 1.0 GHz
1/4", 3/8", 1-5/8"	≥30 dB 1 GHz to 2.7 GHz
1/2", 1-1/4"	≥32 dB 1 GHz to 2.7 GHz
7/8"	≥33 dB 1 GHz to 2.7 GHz ≥26 dB 2.7 GHz to 4 GHz

7-16 DIN Series	
Technical Characteristics	
Nominal impedance	50 Ω
Frequency range	DC to 8.3GHz
Insertion loss	≤ 0.05 dB
Intermodulation	≤ -115 dBm @ 2 x 20 W
RF Leakage	≤ -128 dB @ 1 GHz
Operating temperature	-45° C to +85° C
Waterproof / Protection	IP 68
Plating Outer Contact	white bronze
Plating Center Contact	Silver
Return Loss	
1/4", 3/8", 1/2", 7/8", 1-1/4", 1-5/8"	≥35 dB DC to 1.0 GHz
1/4", 3/8", 1/2" S, 1-5/8"	≥30 dB 1 GHz to 2.7 GHz
1/2" R, 7/8", 1-1/4"	≥32 dB 1 GHz to 2.7 GHz



7-16 DIN Series Connectors

Male Straight

Part Number	Cable Type	Description
60S1C7-C09N1	1/4" S	7-16 DIN male straight
60S115-C02N1	3/8" S	7-16 DIN male straight
60S1C7-C08N1	1/2" S	7-16 DIN male straight
60S1C7-C03N1	1/2" R	7-16 DIN male straight
60S1C7-CX5N1	7/8" R	7-16 DIN male straight
60S1D7-C06N1	1-1/4" R	7-16 DIN male straight
60S1D7-C07N1	1-5/8" R	7-16 DIN male straight



Female Straight

Part Number	Cable Type	Description
60K1C7-C09N1	1/4" S	7-16 DIN female straight
60K115-C02N1	3/8" S	7-16 DIN female straight
60K1C7-C08N1	1/2" S	7-16 DIN female straight
60K1C7-C03N1	1/2" R	7-16 DIN female straight
60K1C7-CX5N1	7/8" R	7-16 DIN female straight
60K1D7-C07N1	1-1/4" R	7-16 DIN female straight
60K1D7-C07N1	1-5/8" R	7-16 DIN female straight



Male Right Angle

Part Number	Cable Type	Connector Type
60S215-C09N1	1/4" S	7-16 DIN male right angle
60S215-C02N1	3/8" S	7-16 DIN male right angle
60S2C7-C03N1	1/2" R	7-16 DIN male right angle
60S2C7-C08N1	1/2" S	7-16 DIN male right angle
60S2C7-C05N1	7/8" R	7-16 DIN male right angle



N Series Connectors

Male Straight		
Part Number	Cable Type	Description
53S1C7-C09N1	1/4" S	N male straight
53S115-C02N1	3/8" S	N male straight
53S1C7-C08N1	1/2" S	N male straight
53S1C7-C03N1	1/2" R	N male straight
53S1C7-CX5N1	7/8" R	N male straight
53S1D7-C07N1	1-1/4" R	N male straight
53S1D7-C07N1	1-5/8" R	N male straight



Female Straight		
Part Number	Cable Type	Description
53K1C7-C09N1	1/4" S	N female straight
53K115-C02N1	3/8" S	N female straight
53K1C7-C08N1	1/2" S	N female straight
53K1C7-C03N1	1/2" R	N female straight
53K1C7-CX5N1	7/8" R	N female straight
53K1D7-C07N1	1-1/4" R	N female straight
53K1D7-C07N1	1-5/8" R	N female straight



Male Right Angle		
Part Number	Cable Type	Connector Type
53S215-C09N1	1/4" S	N male right angle
53S215-C02N1	3/8" S	N male right angle
53S2C7-C03N1	1/2" R	N male right angle
53S2C7-C08N1	1/2" S	N male right angle
53S2C7-C05N1	7/8" R	N male right angle






Rosenberger Mini-DIN/4.1-9.5 Connectors

Connector Features:

- Smaller design compared to 7-16 DIN connectors
- Better intermodulation performance compared to N connectors
- Interface is based on the well known 7-16 DIN connectors
- Screw lock coupling mechanism
- Designed for DC up to 14 GHz
- IP 68 (1 h, 1 bar) waterproof
- Approved for outdoor applications



Connector Series Comparison

Technical Data	Type N	Type 4.1-9.5 / Mini-DIN	Type 7-16 DIN
Frequency Range	18 GHz	14 GHz	8.3 GHz
Return Loss	≥ 26 dBm (typical)	0-2.7 GHz: ≥ 26 dBm 2.7-4 GHz: ≥ 28 dBm 4-6 GHz: ≥ 26 dBm	0-0.5 GHz: ≥ 32 dBm 0.5-4 GHz: ≥ 21 dBm 4-8.3 GHz: ≥ 17 dBm
Intermodulation	≤ 155 dBc	≤ 165 dBc	≤ 165 dBc
Power Handling	1000 W @ 1 GHz 700 W @ 1 GHz	1200 W @ 1 GHz 1000 W @ 2 GHz	1800 W @ 1 GHz 1200 W @ 2 GHz
Flange Size	25.4 mm 	25.4 mm 	32 mm 

Rosenberger Mini-DIN/4.1-9.5 Connectors

Male Straight		
Part Number	Cable Type	Description
65S1C7-C08N1	1/2" S	Rosenberger Mini-DIN/4.1-9.5 male straight connector for 1/2" S Coax
65S1C7-C03N1	1/2" R	Rosenberger Mini-DIN/4.1-9.5 male straight connector for 1/2" R Coax



Female Straight		
Part Number	Cable Type	Description
65K1C7-C08N1	1/2" S	Rosenberger Mini-DIN/4.1-9.5 female straight connector for 1/2" S Coax
65K1C7-C03N1	1/2" R	Rosenberger Mini-DIN/4.1-9.5 female straight connector for 1/2" R Coax



Male Right-Angle		
Part Number	Cable Type	Description
65S2C7-C08N1	1/2" S	Rosenberger Mini-DIN/4.1-9.5 male right-angle connector for 1/2" S Coax
65S2C7-C03N1	1/2" R	Rosenberger Mini-DIN/4.1-9.5 male right-angle connector for 1/2" R Coax



Jumper Assemblies with Mini-DIN/4.1-9.5 Connectors also available (pg. 29,31)

Return Loss:

- DC-1.0 GHz ≥ 32dB
- 1.0-2.2 GHz ≥ 30 dB
- 2.2-2.7 GHz ≥ 28 dB
- 2.7-6.0 GHz ≥ 20 dB

Intermodulation (3rd order): ≤ -117 dBm (2x20W)@900 MHz, 1800 MHz and 2600Mhz



Introducing New 4.3-10 Connector Series

Rosenberger – as a global and innovative leader in RF technology – has developed a new, innovative connector series for mobilecom applications together with other renowned RF suppliers.

The new 4.3-10 connector series is designed to meet the rising performance needs of mobile network equipment and the demands for smaller connector sizes and ongoing space reductions at the same time. The interface design has been submitted to IEC for standardization (expected for 2014).



Very low PIM – independent of torque

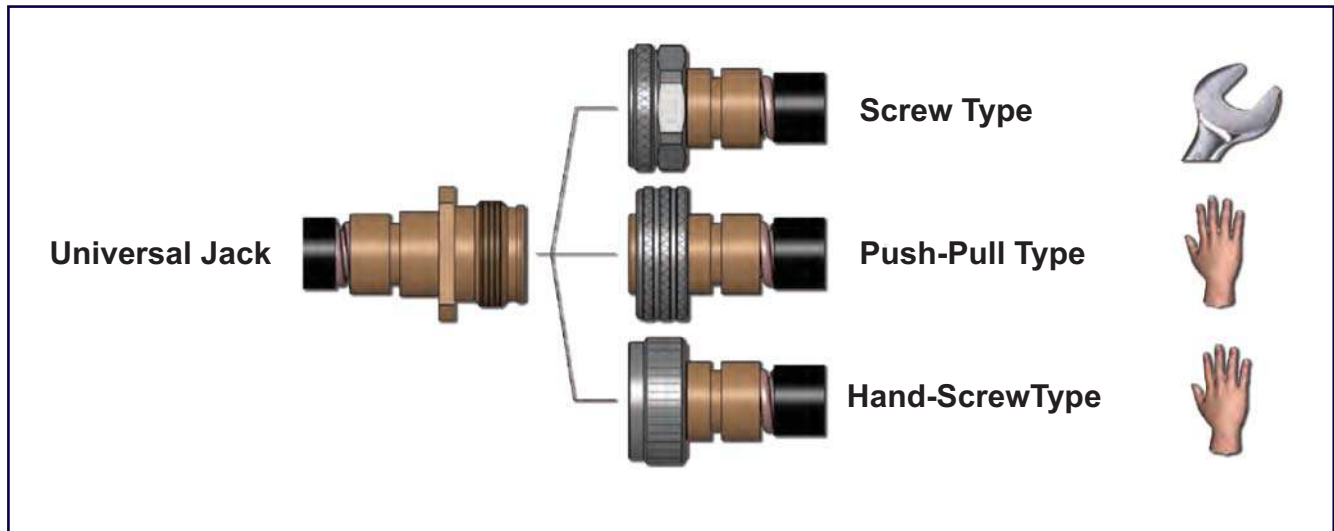
The new 4.3-10 connector series is characterized by best electrical performance and very low passive intermodulation – independent of torque – giving it the potential to become the leading connector system in future mobilecom applications. Due to its dimensions, 4.3-10 connectors are the perfect evolution of currently used connector systems in the mobile communication industry. Electrical and mechanical planes have been separated, leading to significantly lower coupling torque. The 4.3-10 connectors are available with screw-on, hand-screw and quick-lock coupling mechanisms.

Connector Features:

- Jointly developed by Rosenberger and several OEMs / Antenna Manufacturers
- Excellent Electrical Performance and lowest Passive Intermodulation (PIM)
- Compact and Lightweight
- High Density Design
- Flexibility for different applications
- Three connector style options: Wrench Tightened/Screw Type, Push-Pull Type & Hand-Screw Type

Connector Series Comparison

Technical Data	Type 4.1-9.5 / Mini-DIN	Type 4.3-10	Type 7-16 DIN
Minimum flange size	25.4 mm	25.4 mm	32 mm
Return loss	≥ 36 dB @ DC to 4 GHz ≥ 32 dB @ 4 GHz to 6 GHz	≥ 36 dB @ DC to 4 GHz ≥ 32 dB @ 4 GHz to 6 GHz	≥ 36 dB @ DC to 4 GHz ≥ 32 dB @ 4 GHz to 6 GHz
Power handling	450 W @ 2 GHz @ 90°C	500 W @ 2 GHz @ 90°C	1000 W @ 2 GHz @ 90°C
RF-leakage	≥ 110 dB @ DC to 1 GHz	≥ 120 dB @ DC to 3 GHz (Screw type) ≥ 90 dB @ DC to 3 GHz (Push-pull type) ≥ 70 dB @ 3 to 6 GHz (Hand-screw type)	≥ 110 dB @ DC to 1 GHz (tool types)
Passive intermodulation	≥ 160 dBc @ 2 x 43 dBm	≥ 166 dBc @ 2 x 43 dBm	≥ 160 dBc @ 2 x 43 dBm
Degree of protection (water tightness)	IP 68 (@ 25m, 1 hour)	IP 68 (@ 25m, 1 hour)	IP 68 (@ 25m, 1 hour)
Mating cycles	≥ 500	≥ 100	≥ 500
Coupling mechanisms	Screw-on	Screw-on, hand-screw, quick-lock	Screw-on
Coupling torque (Screw-on type)	> 10 Nm	> 5 Nm	> 25 Nm



Male Straight

Part Number	Cable Type	Description
64S1C7-C08N1	1/2" S	Rosenberger 4.3-10 male straight connector for 1/2" S Coax
64S1C7-C03N1	1/2" R	Rosenberger 4.3-10 male straight connector for 1/2" R Coax

Male Right Angle

Part Number	Cable Type	Description
64S2C7-C08N1	1/2" S	Rosenberger 4.3-10 male right-angle connector for 1/2" S Coax
64S2C7-C03N1	1/2" R	Rosenberger 4.3-10 male right-angle connector for 1/2" R Coax

Push-Pull Type: Male Straight

Part Number	Cable Type	Description
64S161-C08N1	1/2" S	Rosenberger 4.3-10 Push-pull type male straight connector for 1/2" S Coax
64S161-C03N1	1/2" R	Rosenberger 4.3-10 Push-pull type male straight connector for 1/2" R Coax

Hand-screw Type : Male Straight

Part Number	Cable Type	Description
64S131-C08N1	1/2" S	Rosenberger 4.3-10 Hand-screw type male straight connector for 1/2" S Coax
64S131-C03N1	1/2" R	Rosenberger 4.3-10 Hand-screw type male straight connector for 1/2" R Coax



1/2" R Automatic Stripping Tool



1/2" R Automatic Stripping Tool		
Part Number	Cable Type	Description
RLT-03C7-A50	1/2" R	1/2" R Automatic Stripping Tool for Rosenberger SLink™ connector

1/2" R Flaring Tool



1/2" R Flaring Tool		
Part Number	Cable Type	Description
RLT-03FT-A51	1/2" R	Flaring tool for 1/2" R Coax

1/2" S Automatic Stripping Tool



1/2" S Automatic Stripping Tool		
Part Number	Cable Type	Description
RLT-08C7-A45	1/2" S	1/2" S Automatic Stripping Tool for Rosenberger SLink™ connector

7/8" R Automatic Stripping Tool



7/8" R Automatic Stripping Tool

Part Number	Cable Type	Description
RLT-05C7-A54	7/8" R	7/8" R Automatic Stripping Tool for Rosenberger SLink™ connector

7/8" R Flaring Tool



7/8" R Flaring Tool

Part Number	Cable Type	Description
RLT-05FT-A55	7/8" R	Flaring tool for 7/8" R Coax

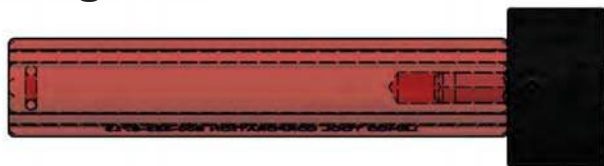
1-1/4" R Automatic Stripping Tool



1-1/4" R Automatic Stripping Tool

Part Number	Cable Type	Description
RLT-06D7-A57	1-1/4" R	1-1/4" R Automatic Stripping Tool for Rosenberger SLink™ connector

1-1/4" R Flaring Tool



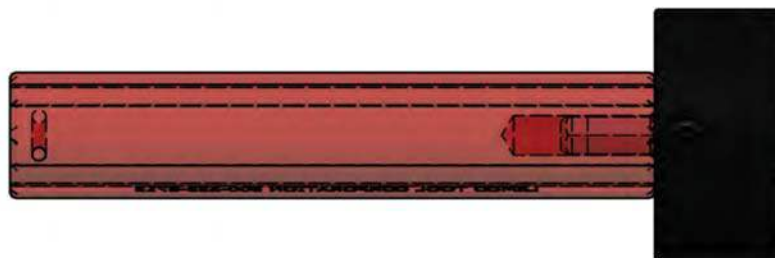
1-1/4" R Flaring Tool		
Part Number	Cable Type	Description
RLT-06FT-A58	1-1/4" R	1-1/4" R Flaring Tool with inner chamfer for SLink™ connector

1-5/8" R Automatic Stripping Tool



1-5/8" R Automatic Stripping Tool		
Part Number	Cable Type	Description
RLT-07D7-A59	1-5/8" R	1-5/8" R Automatic Stripping Tool for Rosenberger SLink™ connector

1-5/8" R Flaring Tool



1-5/8" R Flaring Tool		
Part Number	Cable Type	Description
RLT-07FT-A60	1-5/8" R	1 5/8" R Flaring Tool with inner chamfer for SLink™ connector

Wrenches



Wrenches		
Part #	Description	Size
RLT-Z857-W1213	Double-ended wrenches	12 mm - 13 mm
RLT-Z857- W1415	Double-ended wrenches	14 mm - 15 mm
RLT-Z857- W 1819	Double-ended wrenches	18 mm - 19 mm
RLT-Z857- W 2022	Double-ended wrenches	20 mm - 22 mm
RLT-Z857- W 2123	Double-ended wrenches	21 mm - 23 mm
RLT-Z857- W 2422	Double-ended wrenches	24 mm - 22 mm
RLT-Z857-W 3230	Double-ended wrenches	32 mm - 30 mm
RLT-Z857-W 45	Single-ended wrenches	45 mm
RLT-Z857-W 56	Single-ended wrenches	56 mm

Torque Wrenches	
Part #	Description
RLT-60W000-001	32MM Torque Wrench for the 7-16 DIN Connectors
RLT-53W010-000	18MM Torque wrench for N Connectors

Stripping Tools for Grounding Kits

Stripping Tools for Grounding Kits		
Stripping Tool Part #	Cable Type	Replacement Blade Part Number
S45056-Z857-A841	1/2" S	RLT-Z857-A941
S45056-Z857-A842	1/2" R	RLT-Z857-A942
S45056-Z857-A843	7/8" R+S+H	RLT-Z857-A942
S45056-Z857-A844	1-1/4" R	RLT-Z857-A945
S45056-Z857-A845	1-5/8" R	RLT-Z857-A945



Rosenberger Jumper Assemblies



Rosenberger SLink™ jumpers are ideal for daily use withstanding the harshest environmental conditions and distinguished by the following characteristics:

- Specially developed connectors using proprietary soldering technology guarantees superior electrical performance
- Injection molded sealing between the cable jacket and connector ensures mechanical stability and waterproof protection to IP68.
- Shielding of > 120 dB
- Low intermodulation product IM3 -160 dBc
- Excellent return loss due to silver-plated connectors and attenuation-optimized cable
- 100% factory tested for Intermodulation (IM3) and return loss
- Available with flame retardant, halogen-free cable jackets (FRNC)
- Available in any cable length with a large variety of connector combinations

Electrical Data					
Type		1/4" S	3/8" S	1/2" S	1/2" R
Peak power rating		8kW	13kW	19kW	58kW
Insertion loss	900 MHz	0.05 dB/ft	0.04 dB/ft	0.03 dB/ft	0.02 dB/ft
		+ 0.10 dB (connectors)	+0.10 dB (connectors)	+0.10 dB (connectors)	+0.10 dB (connectors)
	1800 MHz	0.08 dB/ft	0.06 dB/ft	0.05 dB/ft	0.03 dB/ft
		+0.10 dB (connectors)	+0.10 dB (connectors)	+0.10 dB (connectors)	+0.10 dB (connectors)
	2200 MHz	0.09 dB/ft	0.07dB/ft	0.05 dB/ft	0.03 dB/ft
		+0.10 dB (connectors)	+0.10 dB (connectors)	+0.10 dB (connectors)	+0.10 dB (connectors)
Frequency range	DC to 2700 MHz				
Nominal impedance	50 Ω				
Return loss ¹	30 - 1000 MHz	≥ 30 dB			
	1000 - 2200 MHz	≥ 28 dB			
	2200 - 2700 MHz	≥ 26 dB			
Relative velocity of propagation	82% to 84%				
Intermodulation at 900 MHz + 1800 MHz + 2200 MHz					

Mechanical Data					
Type		1/4" S	3/8" S	1/2" S	1/2" R
Bending radius, repeated bending		25 mm (0.98 in)	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)	12.5 mm (0.49 in)	15 mm (0.59 in)	70 mm (2.76 in)
Max. tensile strength		max. 350 N	max. 600 N	max. 1000 N	max. 1200 N

Environment					
Type		1/4" S	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 Method 204/B			
Shock resistance		MIL STD 202 Method 213/B			
Corrosion resistance		MIL STD 202 Method 101			

Materials					
Type		1/4" S	3/8" S	1/2" S	1/2" R
Cable	Inner conductor	copper clad aluminum wire			
	Dielectric	highly foamed polyethylene			
	Outer conductor	spiral corrugated copper tube	spiral corrugated copper tube	spiral corrugated copper tube	annular corrugated 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 molding			

Rosenberger Jumper Assembly Part Number Configurator

SLJ	Cable Size	Cable Type	Jacket Type	—	Conn.1 Type	Conn.1 Sex	Conn.2 Type	Conn.2 Sex	—	Length	Unit	—	00
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Cable Size	Cable Type	Jacket Type
14 = 1/4"	R = Regular	P = PE
38 = 3/8"	S = Sup.Flex	F = FRNC
12 = 1/2"		

Conn.1 Type	Conn.1 Sex	Conn.2 Type	Conn. 2 Sex
60 = 7-16 DIN	M = Male	60 = 7-16 DIN	M = Male
53 = N	F = Female	53 = N	F = Female
65 = 4.1-9.5	R = Right Angle M	65 = 4.1-9.5	R = Right Angle M
64 = 4.3-10		64 = 4.3-10	

Length	Unit
numerical value of length	ft = feet
	m = meter

Example:

For a 100 feet 1/2" Superflex PE 7-16 DIN Male Straight to 7-16 DIN Male Right Angle jumper the part number would be: **SLJ12SP - 60M60R - 100ft - 00**

1/2" Super Flex Jumper Assemblies

7-16 DIN Male - 7-16 DIN Male

Foot (ft) Lengths	Part Number	Length
	SLJ12SP-60M60M-2ft-00	2 ft
	SLJ12SP-60M60M-3ft-00	3 ft
	SLJ12SP-60M60M-4ft-00	4 ft
	SLJ12SP-60M60M-6ft-00	6 ft
	SLJ12SP-60M60M-8ft-00	8 ft
	SLJ12SP-60M60M-10ft-00	10 ft
	SLJ12SP-60M60M-12ft-00	12 ft
	SLJ12SP-60M60M-15ft-00	15 ft
	SLJ12SP-60M60M-20ft-00	20 ft

7-16 DIN Male - 7-16 DIN Male Right Angle

Foot (ft) Lengths	Part Number	Length
	SLJ12SP-60M60R-2ft-00	2 ft
	SLJ12SP-60M60R-3ft-00	3 ft
	SLJ12SP-60M60R-4ft-00	4 ft
	SLJ12SP-60M60R-6ft-00	6 ft
	SLJ12SP-60M60R-8ft-00	8 ft
	SLJ12SP-60M60R-10ft-00	10 ft
	SLJ12SP-60M60R-12ft-00	12 ft
	SLJ12SP-60M60R-15ft-00	15 ft
	SLJ12SP-60M60R-20ft-00	20 ft

Meter (m) Lengths	Part Number	Length
	SLJ12SP-60M60M-1m-00	1 m
	SLJ12SP-60M60M-2m-00	2 m
	SLJ12SP-60M60M-3m-00	3 m
	SLJ12SP-60M60M-4m-00	4 m
	SLJ12SP-60M60M-5m-00	5 m
	SLJ12SP-60M60M-6m-00	6 m
	SLJ12SP-60M60M-8m-00	8 m
	SLJ12SP-60M60M-10m-00	10 m
	SLJ12SP-60M60M-20m-00	20 m

Meter (m) Lengths	Part Number	Length
	SLJ12SP-60M60R-1m-00	1 m
	SLJ12SP-60M60R-2m-00	2 m
	SLJ12SP-60M60R-3m-00	3 m
	SLJ12SP-60M60R-4m-00	4 m
	SLJ12SP-60M60R-5m-00	5 m
	SLJ12SP-60M60R-6m-00	6 m
	SLJ12SP-60M60R-8m-00	8 m
	SLJ12SP-60M60R-10m-00	10 m
	SLJ12SP-60M60R-20m-00	20 m

*** For Additional Lengths please use Part Number Configurator

1/2" R Jumper Assemblies



7-16 DIN Male - 7-16 DIN Male

7-16 DIN Male - 7-16 DIN Male Right Angle

Foot (ft) Lengths	Part Number	Length
	SLJ12RP-60M60M-2ft-00	2 ft
	SLJ12RP-60M60M-3ft-00	3 ft
	SLJ12RP-60M60M-4ft-00	4 ft
	SLJ12RP-60M60M-6ft-00	6 ft
	SLJ12RP-60M60M-8ft-00	8 ft
	SLJ12RP-60M60M-10ft-00	10 ft
	SLJ12RP-60M60M-12ft-00	12 ft
	SLJ12RP-60M60M-15ft-00	15 ft
	SLJ12RP-60M60M-20ft-00	20 ft

Foot (ft) Lengths	Part Number	Length
	SLJ12RP-60M60R-2ft-00	2 ft
	SLJ12RP-60M60R-3ft-00	3 ft
	SLJ12RP-60M60R-4ft-00	4 ft
	SLJ12RP-60M60R-6ft-00	6 ft
	SLJ12RP-60M60R-8ft-00	8 ft
	SLJ12RP-60M60R-10ft-00	10 ft
	SLJ12RP-60M60R-12ft-00	12 ft
	SLJ12RP-60M60R-15ft-00	15 ft
	SLJ12RP-60M60R-20ft-00	20 ft

Meter (m) Lengths	Part Number	Length
	SLJ12RP-60M60M-1m-00	1 m
	SLJ12RP-60M60M-2m-00	2 m
	SLJ12RP-60M60M-3m-00	3 m
	SLJ12RP-60M60M-4m-00	4 m
	SLJ12RP-60M60M-5m-00	5 m
	SLJ12RP-60M60M-6m-00	6 m
	SLJ12RP-60M60M-8m-00	8 m
	SLJ12RP-60M60M-10m-00	10 m
	SLJ12RP-60M60M-20m-00	20 m

Meter (m) Lengths	Part Number	Length
	SLJ12RP-60M60R-1m-00	1 m
	SLJ12RP-60M60R-2m-00	2 m
	SLJ12RP-60M60R-3m-00	3 m
	SLJ12RP-60M60R-4m-00	4 m
	SLJ12RP-60M60R-5m-00	5 m
	SLJ12RP-60M60R-6m-00	6 m
	SLJ12RP-60M60R-8m-00	8 m
	SLJ12RP-60M60R-10m-00	10 m
	SLJ12RP-60M60R-20m-00	20 m

*** For Additional Lengths please use Part Number Configurator on page 29

Rosenberger Jumper Assemblies with Mini-DIN/4.1-9.5 Connectors

Features:

Mini-DIN/4.1-9.5 Male Straight - Male Straight or Male Straight - Male Right Angle, Low PIM Jumpers.
Smaller connector size compared to 7/16 Connectors

Return Loss:

DC-1.0 GHz	≥ 32dB
1.0-2.2 GHz	≥ 30 dB
2.2-2.7 GHz	≥ 28 dB
2.7-6.0 GHz	≥ 20 dB

Intermodulation (3rd order): ≤-117 dBm (2x20W)@900 MHz, 1800 MHz and 2600Mhz

Pre-configured part numbers***



1/2" R Jumper Assembly with Mini-DIN/4.1-9.5 Male Straight to 4.1-9.5 Male Straight Connector	
Part Number	Length
SLJ12RP-65M65M-3m-00	3 m
SLJ12RP-65M65M-4m-00	4 m
SLJ12RP-65M65M-5m-00	5 m
SLJ12RP-65M65M-6m-00	6 m

1/2" S Jumper Assembly with 4.1-9.5 Male Straight to 4.1-9.5 Male Straight Connector	
Part Number	Length
SLJ12SP-65M65M-3m-00	3 m
SLJ12SP-65M65M-4m-00	4 m
SLJ12SP-65M65M-5m-00	5 m
SLJ12SP-65M65M-6m-00	6 m

Rosenberger Jumper Assemblies with 4.3-10 Connectors

Features:

The new 4.3-10 connector series is characterized by superior electrical performance and very low passive intermodulation, all independent of torque. Rosenberger offers 4.3-10 Male Straight - Male Straight or Male Straight - Male Right Angle, Low PIM Jumpers.



Pre-configured part numbers***

1/2" R Jumper Assembly with 4.3-10 Male Straight to 4.3-10 Male Straight Connector	
Part Number	Length
SLJ12RP-64M64M-3m-00	3 m
SLJ12RP-64M64M-4m-00	4 m
SLJ12RP-64M64M-5m-00	5 m
SLJ12RP-64M64M-6m-00	6 m

1/2" S Jumper Assembly with 4.3-10 Male Straight to 4.3-10 Male Straight Connector	
Part Number	Length
SLJ12SP-64M64M-3m-00	3 m
SLJ12SP-64M64M-4m-00	4 m
SLJ12SP-64M64M-5m-00	5 m
SLJ12SP-64M64M-6m-00	6 m

*** For Additional Lengths please use Part Number Configurator on page 29

LMR® Jumper Assemblies

LMR® braided cable jumpers are an economical offering that provide low RF loss with high flexibility. LMR® jumper assemblies are offered in a variety of cable sizes and lengths with an assortment of connector interfaces including N, TNC, BNC, 7-16 DIN, SMA, UHF and reverse polarity.

Features of the LMR® jumpers include:

- High performance flexible shield provides >90dB shielding.
- Polyethylene outer jacket that is UV and weather resistant
- Tinned copper outer braid that provides for connector retention and ease of grounding.
- Highly flexible, non-kinking design
- Low loss and better shielding than comparably sized braided cables
- Available in fire retardant jackets and low loss plenum cable.



LMR Jumper Assembly Part Number Configurator

Example Order Number: SR - 195 - 60 - NF - NM

SR	LMR Cable Type	Length in Inches	Connector 1	-	Connector 2
	195	60	N Female	-	N Male

LMR Cable Types
195
200
240
300
400

LMR Connector Types*	
SMA Male	SMA
TNC Male	TNCM
TNC Male Reverse Polarity	RPTNCM
TNC Male Right Angle	TNCMRA
TNC Female	TNCF
N Female	NF
N Male	NM
N Female Bulkhead	NFBH
N Male Bulkhead	NMBH
N Male Right Angle	NMRA
7-16 DIN Male	DM
7-16 DIN Female	DF

Connector 2: N Male

Connector 1: N Female

Length: 60 Inches

Cable Type: LMR 195

LMR Jumper Cable

* Other connector types also available

Let us meet all your custom LMR® Jumper needs. Give us a call today with your order number.

LMR®-195 Flexible Low Loss Communications Coax & Connectors



Mechanical Characteristics		Electrical Characteristics		Attenuation values & power ratings		
Inner Conductor - Solid BC	0.037 in	Cutoff Frequency	41 GHz	Freq MHz	Attenuation dB/100ft	Mean power rating kW
Dielectric - Foam PE	0.110 in	Velocity of Propagation	80%			
Outer Conductor - Aluminum Tape	0.116 in	Dielectric Constant	1.56	30	2.0	0.89
Overall Braid - Tinned Copper	0.139 in	Time Delay	1.27 nS/ft	50	2.5	0.68
Jacket	0.195 in	Impedance	50 ohms	150	4.4	0.39
Bend Radius: installation	0.5 in	Capacitance	25.4 pF/ft	220	5.4	0.32
Bend Radius: repeated	2.0 in	Inductance	0.064 uH/ft	450	7.8	0.22
Bending Moment	0.2 ft-lb	Shielding Effectiveness	>90 dB	900	11.1	0.16
Weight	0.21 lb/ft	DC Resistance		1500	14.5	0.12
Tensile Strength	40 lb	Inner Conductor	7.6 ohms/1000ft	1800	16.0	0.11
Flat Plate Crush	15 lb/in	Outer Conductor	4.9 ohms/1000ft	2000	16.9	0.10
Installation Temperature Range	-40° F to +185° F	Voltage Withstand	1000 Volts DC	2500	19.0	0.09
Storage Temperature Range	-94° F to +185° F	Jacket Spark	3000 Volts RMS	5800	29.9	0.06
Operating Temperature Range	-40° F to +185° F	Peak Power	2.5 kW			

Part #	Description	UOM
TM-LMR-195	TM-LMR-195 3/16" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET	Per Ft
TM-LMR-195-500	TM-LMR-195-500 3/16" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET 500 FT. REEL	500 ft Reel
TM-LMR-195-DB	LMR-195 WATERTIGHT, BLACK PE JACKET	Per Ft
TM-LMR-195-DB-500	TM-LMR-195-DB-500 WATERTIGHT, BLACK PE JACKET 500 FT REEL	500 ft Reel
TM-LMR-195-FR	TM-LMR-195-FR CMR/MPR (PCC-FT4), BLACK NON-HALOGEN JACKET	Per Ft
TM-LMR-195-FR-500	TM-LMR-195-FR-500 CMR/MPR (PCC-FT4), BLACK NON-HALOGEN JACKET 500 FT REEL	500 ft Reel
TM-LMR-195-LLPL-W	TM-LMR-195-LLPL-W 3/16" FLEXIBLE LOW LOSS COAX-LOW LOSS PLENUM, CMP/MPP (PCCFT6), WHITE JACKET	Per Ft
TM-LMR-195-LW-500	TM-LMR-195-LW-500 REEL, 3/16 LIGHT WEIGHT STANDARD CABLE, ALUMINUM BRAID, BLACK PE JACKET	500 ft Reel



TM-TC-195-NM



TM-TC-195-TM



TM-TC-195-SM

Part #	Description	UOM
TM-TC-195-NM	TC-195-NM N-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-195-NMH-RA-D	TC-195-NMH-RA-D N-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR	Each
TM-TC-195-SM	TM-TC-195-SM, SMA MALE STRAIGHT CRIMP CONNECTOR	Each
TM-TC-195-TM	TM-TC-195-TM, TNC MALE STRAIGHT CRIMP CONNECTOR	Each

LMR®-200 Flexible Low Loss Communications Coax & Connectors



Mechanical Characteristics		Electrical Characteristics	
Inner Conductor - Solid BC	0.044 in	Cutoff Frequency	39 GHz
Dielectric - Foam PE	0.116 in	Velocity of Propagation	83%
Outer Conductor - Aluminum Tape	0.121 in	Dielectric Constant	1.45
Overall Braid - Tinned Copper	0.144 in	Time Delay	1.22 nS/ft
Jacket	0.195 in	Impedance	50 ohms
Bend Radius: installation	0.5 in	Capacitance	24.5 pF/ft
Bend Radius: repeated	2.0 in	Inductance	0.061 uH/ft
Bending Moment	0.2 ft-lb	Shielding Effectiveness	>90 dB
Weight	0.22 lb/ft	DC Resistance	
Tensile Strength	40 lb	Inner Conductor	5.36 ohms/1000ft
Flat Plate Crush	15 lb/in	Outer Conductor	4.9 ohms/1000ft
Installation Temperature Range	-40° F to +185° F	Voltage Withstand	1000 Volts DC
Storage Temperature Range	-94° F to +185° F	Jacket Spark	3000 Volts RMS
Operating Temperature Range	-40° F to +185° F	Peak Power	2.5 kW

Attenuation values & power ratings		
Freq MHz	Attenuation dB/100ft	Mean power rating kW
30	1.8	1.02
50	2.3	0.79
150	4.0	0.45
220	4.8	0.37
450	7.0	0.26
900	9.9	0.18
1500	12.9	0.14
1800	14.2	0.13
2000	15.0	0.12
2500	16.9	0.11
5800	26.4	0.07

Part #	Description	UOM
TM-LMR-200	LMR-200 STANDARD CABLE, BLACK PE JACKET	Per Ft.
TM-LMR-200-75	LMR-200-75 STANDARD CABLE, BLACK PE JACKET, 75 OHM	Per Ft.
TM-LMR-200-DB	LMR-200 WITH WATERTIGHT BLACK PE JACKET	Per Ft.
TM-LMR-200-FR	LMR-200 WITH NON-HALOGEN FR JACKET	Per Ft.
TM-LMR-200-FR-PVC	LMR-200 WITH FRPVC JACKET	Per Ft.
TM-LMR-200-MA	LMR-200 HIGH PERFORMANCE MOBILE ANTENNA CABLE	Per Ft.



TM-TC-200-NM



TM-TC-200-SM



TM-EZ-200-NM

Part #	Description	UOM
TM-TC-200-NM	N-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-200-SM	TM-TC-200-SM, SMA-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-200-TF	TM-TC-200-TF, TNC-FEMALE (JACK) CRIMP CONNECTOR	Each
TM-TC-200-TMC	TM-TC-200-TMC, TNC-MALE PLUG CLAMP CONNECTOR	Each
TM-EZ-200-NM	N-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN)	Each

LMR®-240 Flexible Low Loss Communications Coax

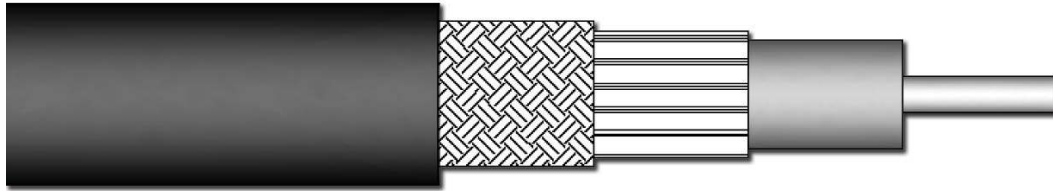


Mechanical Characteristics		Electrical Characteristics	
Inner Conductor - Solid BC	0.056 in	Cutoff Frequency	31 GHz
Dielectric - Foam PE	0.150 in	Velocity of Propagation	84%
Outer Conductor - Aluminum Tape	0.155 in	Dielectric Constant	1.42
Overall Braid - Tinned Copper	0.178 in	Time Delay	1.21 nS/ft
Jacket	0.240 in	Impedance	50 ohms
Bend Radius: installation	0.75 in	Capacitance	24.2 pF/ft
Bend Radius: repeated	2.5 in	Inductance	0.060 uH/ft
Bending Moment	0.25 ft-lb	Shielding Effectiveness	>90 dB
Weight	0.034 lb/ft	DC Resistance	
Tensile Strength	80 lb	Inner Conductor	3.2 ohms/1000ft
Flat Plate Crush	20 lb/in	Outer Conductor	3.89 ohms/1000ft
Installation Temperature Range	40° F to +185° F	Voltage Withstand	1500 Volts DC
Storage Temperature Range	94° F to +185° F	Jacket Spark	5000 Volts RMS
Operating Temperature Range	40° F to +185° F	Peak Power	5.6 kW

Attenuation values & power ratings		
Freq MHz	Attenuation dB/100ft	Mean power rating kW
30	1.3	1.49
50	1.7	1.15
150	3.0	0.66
220	3.7	0.54
450	5.3	0.38
900	7.6	0.26
1500	9.9	0.20
1800	10.9	0.18
2000	11.5	0.17
2500	12.9	0.15

Part #	Description	UOM
TM-LMR-240	1/4" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET	Per Ft
TM-LMR-240-1000	1/4" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET	1000 ft Reel
TM-LMR-240-500	1/4" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET	500 ft Reel
TM-LMR-240-75	1/4" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET, 75 OHM (RG-59 SIZE)	Per Ft
TM-LMR-240-DB-500	1/4" FLEXIBLE LOW LOSS COAX WATERTIGHT, BLACK PE JACKET	500 ft Reel
TM-LMR-240-FR-1000	1/4" FLEXIBLE LOW LOSS COAX W/NON-HALOGEN FR JKT, LISTED CMR/MPR (PCC-FT4)	1000 ft Reel
TM-LMR-240-LLPL	1/4" FLEXIBLE LOW LOSS COAX LOW LOSS PLENUM, LISTED CMP/MPP (PCC-FT6), ORANGE JACKET	Per Ft
TM-LMR-240-LLPL-1000	1/4" FLEXIBLE LOW LOSS COAX LOW LOSS PLENUM, LISTED CMP/MPP (PCC-FT6), ORANGE JACKET 1000 FT REEL	1000 ft Reel
TM-LMR-240-LLPL-500	1/4" FLEXIBLE LOW LOSS COAX LOW LOSS PLENUM, LISTED CMP/MPP (PCC-FT6), ORANGE JACKET 500 FEET REEL	500 ft Reel
TM-LMR-240-MA	1/4" FLEXIBLE LOW LOSS COAX HIGH PERFORMANCE MOBILE ANTENNA CABLE	Per Ft.
TM-LMR-240-PVC	1/4" FLEXIBLE LOW LOSS COAX INDOOR CABLE, BLACK PVC JACKET	Per Ft
TM-LMR-240-PVC-W	1/4" LOW LOSS COAX INDOOR CABLE, WHITE PVC JACKET	Per Ft
TM-LMR-240-UF	1/4" FLEXIBLE LOW LOSS COAX W/STRANDED CENTER CONDUCTOR AND TPE JACKET	Per Ft

Rosenberger Braided Coax: TM-RBK-240



Material and Dimensions		
Inner Conductor	Bare Copper, Solid	1.42mm
Dielectric	Foamed PE	3.81mm
Braid 1	Aluminium Tape	3.94mm
Braid 2	Tin-Plated Copper Wire Braid	4.52mm
Jacket	Black PE; Waterproof Black PE; Black FRPE jacket	6.10mm
Electrical Data		
Impedance		50 Ω
Velocity of propagation		84%
Capacitance		79.4pF/m
Shielding Effectiveness		>90dB
Voltage Withstand		500V DC
DC Resistance	Inner Conductor Outer Conductor	11.5 Ω/km 14.8 Ω/km

Mechanical Data	
Min. bending radius, single	30 mm
Min. bending radius, multiple	60 mm
Weight	50kg/km

Environmental Data	
Temperature range, Operating	-25°C to +70°C
2002/95/EC (RoHS)	Compliant

Attenuation values & power ratings		
<ul style="list-style-type: none"> Attenuation typical values at an air temperature of +25°C Power rating typical values at 40°C ambient temperature, Sea Level and VSWR 1.0 		
Freq MHz	Attenuation dB/100m	Mean power rating kW
30	4.7	1.49
50	6.1	1.15
150	9.9	0.66
220	12.0	0.54
450	17.6	0.38
900	25.6	0.26
1500	34.1	0.20
1800	37.7	0.18
2000	40.0	0.17
2500	43.6	0.15

Part #	Description	UOM
TM-RBK-240	1/4" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET	Per Ft
TM-RBK-240-500	1/4" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET 500' SPOOL	500 ft Reel
TM-RBK-240-1000	1/4" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET 1000' SPOOL	1000 ft Reel
TM-RBK-240-W	1/4" FLEXIBLE LOW LOSS COAX STANDARD CABLE, WHITE PE JACKET	Per Ft
TM-RBK-240-DB	1/4" FLEXIBLE LOW LOSS COAX STANDARD CABLE, WATERPROOF BLACK PE JACKET	Per Ft
TM-RBK-240-FR	1/4" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK FRPE JACKET	Per Ft

'TC' (solder-on center pin) Connectors for LMR[®] 240 and Rosenberger TM-RBK-240



TM-TC-240-NMC



TM-TC-240-NMH-D



TM-TC-240-NMH-RA(A)



TM-TC-240-NF-BH



TM-TC-240-NF-BHF(A)



TM-TC-240-SM



TM-TC-240-SM-RP



TM-TC-240-SM-RA



TM-TC-240-SF-BH



TM-TC-240-TM



TM-TC-240-TM-RA



TM-TC-240-BM(A)



TM-TC-240-MUHF



TM-TC-240-FM

Part #	Description	UOM
TM-TC-240-BM-X	1/4" FLEXIBLE LOW LOSS COAX BNC-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-240-BM-75-X	1/4" FLEXIBLE LOW LOSS COAX TYPE BNC-MALE (PLUG) CRIMP CONNECTOR (CRIMP PIN) FOR LMR-240-75	Each
TM-TC-240-BMC	1/4" FLEXIBLE LOW LOSS COAX BNC MALE (PLUG) CLAMP CONNECTOR	Each
TM-TC-240-FM-X	1/4" FLEXIBLE LOW LOSS COAX TYPE F-MALE (PLUG) CRIMP CONNECTOR (SOLDER-ON PIN) FOR LMR-240	Each
TM-TC-240-FMH-75	1/4" FLEXIBLE LOW LOSS COAX TYPE F-MALE (PLUG) CRIMP CONNECTOR (SOLDER PIN) FOR LMR-240-75	Each
TM-TC-240-MUHF	1/4" FLEXIBLE LOW LOSS COAX MINI-UHF (PLUG) CRIMP CONNECTOR	Each
TM-TC-240-NF-BH-X	1/4" FLEXIBLE LOW LOSS COAX N-FEMALE (JACK) CRIMP BULKHEAD CONNECTOR	Each
TM-TC-240NFBHF(A)	1/4" FLEXIBLE LOW LOSS COAX N-FEMALE (JACK) CRIMP PANEL MOUNT (4-HOLE FLANGE) CONNECTOR	Each
TM-TC-240-NMC	1/4" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CLAMP CONNECTOR	Each
TM-TC-240-NMH	1/4" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-240-NMH-D	1/4" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-240-NMRA(A)	1/4" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR	Each
TM-TC-240-SF-BH	1/4" FLEXIBLE LOW LOSS COAX SMA-FEMALE (JACK) CRIMP BULKHEAD CONNECTOR	Each
TM-TC-240-SM	1/4" FLEXIBLE LOW LOSS COAX SMA-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-240-SM-RA	1/4" FLEXIBLE LOW LOSS COAX SMA-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR	Each
TM-TC-240-SM-RP	1/4" FLEXIBLE LOW LOSS CABLE SMA-MALE (PLUG) CRIMP/REVERSE POLARITY (FEMALE PIN)	Each
TM-TC-240-TM	1/4" FLEXIBLE LOW LOSS COAX TNC-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-240-TM-RA	1/4" FLEXIBLE LOW LOSS COAX TNC-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR	Each

'EZ' Install (non-solder) Connectors for LMR[®] 240 and Rosenberger TM-RBK-240



TM-EZ-240-NMHD



TM-EZ-240-SM



TM-EZ-240-TM



TM-EZ-240-TM-RP



TM-EZ-240-QM-RA



TM-EZ-240-QM

Part #	Description	UOM
TM-EZ-240-FMH-75	1/4" FLEXIBLE LOW LOSS COAX TYPE F-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN) FOR LMR-240-75	Each
TM-EZ-240-NM	1/4" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP CONNECTOR/NON-SOLDER PIN	Each
TM-EZ-240-NM-75	1/4" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN) FOR LMR-240-75	Each
TM-EZ-240-NMH-X	1/4" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP CONNECTOR/NON-SOLDER PIN	Each
TM-EZ-240-QM-X	1/4" FLEXIBLE LOW LOSS COAX QMA-MALE (PLUG) CRIMP CONNECTOR/NON-SOLDER - QUICK DISCONNECT SMA	Each
TM-EZ-240-QM-RA-X	1/4" FLEXIBLE LOW LOSS COAX QMA-MALE (PLUG) CRIMP RIGHT ANGLE/NON-SOLDER; QUICK DISCONNECT SMA	Each
TM-EZ-240-SM-X	1/4" FLEXIBLE LOW LOSS CABLE SMA-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN)	Each
TM-EZ-240-SM-RA-X	1/4" FLEXIBLE LOW LOSS COAX SMA-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR (NON-SOLDER PIN)	Each
TM-EZ-240-TM-X	1/4" FLEXIBLE LOW LOSS COAX TNC-MALE (PLUG) CRIMP CONNECTOR/NON-SOLDER	Each
TM-EZ-240-TM-RP	1/4" FLEXIBLE LOW LOSS COAX TNC-MALE (PLUG) CRIMP, REVERSE POLARITY (NON-SOLDER FEMALE PIN)	Each

LMR®-300 Flexible Low Loss Communications Coax & Connectors



Mechanical Characteristics		Electrical Characteristics	
Inner Conductor - Solid BC	0.070 in	Cutoff Frequency	24.5 GHz
Dielectric - Foam PE	0.190 in	Velocity of Propagation	85%
Outer Conductor - Aluminum Tape	0.196 in	Dielectric Constant	1.38
Overall Braid - Tinned Copper	0.225 in	Time Delay	1.20 nS/ft
Jacket	0.300 in	Impedance	50 ohms
Bend Radius: installation	0.88 in	Capacitance	23.9 pF/ft
Bend Radius: repeated	3.0 in	Inductance	0.060 uH/ft
Bending Moment	0.38 ft-lb	Shielding Effectiveness	>90 dB
Installation Temperature Range	-40° F to +185° F	DC Resistance	
Storage Temperature Range	-94° F to +185° F	Inner Conductor	2.12 ohms/1000ft
Operating Temperature Range	-40° F to +185° F	Outer Conductor	2.21 ohms/1000ft
		Voltage Withstand	2000 Volts DC
		Jacket Spark	5000 Volts RMS
		Peak Power	10 kW

Attenuation values & power ratings		
Freq MHz	Attenuation dB/100ft	Mean power rating kW
30	1.1	2.09
50	1.4	1.62
150	2.4	0.92
220	2.9	0.76
450	4.2	0.52
900	6.1	0.36
1500	7.9	0.28
1800	8.7	0.25
2000	9.2	0.24
2500	10.4	0.21
5800	16.5	0.13

Part #	Description	UOM
TM-LMR-300	LMR-300 STANDARD CABLE, BLACK PE JACKET	Per Ft.
TM-LMR-300-75	LMR-300-75 STANDARD CABLE, BLACK PE JACKET, 75 OHM	Per Ft.
TM-LMR-300-DB	LMR-300 WITH WATERTIGHT BLACK PE JACKET	Per Ft.
TM-LMR-300-FR	LMR-300 WITH NON-HALOGEN FR JACKET	Per Ft.
TM-LMR-300-UF	LMR-300 WITH STRANDED CENTER CONDUCTOR AND TPE JACKET	Per Ft.



TM-TC-300-SF-BH



TM-TC-300-TM

Part #	Description	UOM
TM-TC-300-BM-75	TC-300-BM-75, BNC-MALE (PLUG) CRIMP CONNECTOR (CRIMP PIN) FOR LMR-300-75	Each
TM-TC-300-NM	TC-300-NM, N-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-300-SF-BH	TC-300-SF-BH, SMA-FEMALE (JACK) CRIMP BULKHEAD CONNECTOR	Each
TM-TC-300-TM	TC-300-TM, TNC-MALE (PLUG) CRIMP CONNECTOR	Each

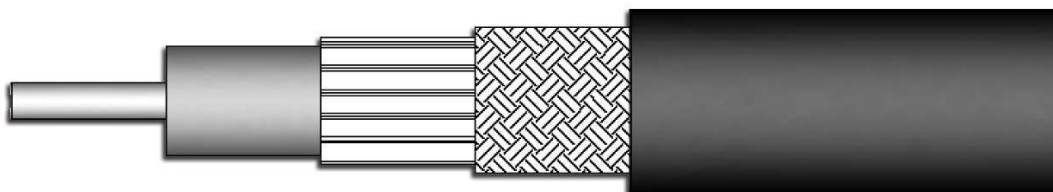
LMR®-400 Flexible Low Loss Communications Coax



Mechanical Characteristics		Electrical Characteristics		Attenuation values & power ratings																																				
Inner Conductor - Solid BCCAI	0.108 in`	Cutoff Frequency	16.2 GHz	<table border="1"> <thead> <tr> <th>Freq MHz</th> <th>Attenuation dB/100ft</th> <th>Mean power rating kW</th> </tr> </thead> <tbody> <tr><td>30</td><td>0.7</td><td>3.33</td></tr> <tr><td>50</td><td>0.9</td><td>2.57</td></tr> <tr><td>150</td><td>1.5</td><td>1.47</td></tr> <tr><td>220</td><td>1.9</td><td>1.2</td></tr> <tr><td>450</td><td>2.7</td><td>0.83</td></tr> <tr><td>900</td><td>3.9</td><td>0.58</td></tr> <tr><td>1500</td><td>5.1</td><td>0.44</td></tr> <tr><td>1800</td><td>5.7</td><td>0.4</td></tr> <tr><td>2000</td><td>6</td><td>0.37</td></tr> <tr><td>2500</td><td>6.8</td><td>0.33</td></tr> <tr><td>5800</td><td>10.8</td><td>0.21</td></tr> </tbody> </table>	Freq MHz	Attenuation dB/100ft	Mean power rating kW	30	0.7	3.33	50	0.9	2.57	150	1.5	1.47	220	1.9	1.2	450	2.7	0.83	900	3.9	0.58	1500	5.1	0.44	1800	5.7	0.4	2000	6	0.37	2500	6.8	0.33	5800	10.8	0.21
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5800	10.8	0.21																																						
Dielectric - Foam PE	0.285 in	Velocity of Propagation	85%																																					
Outer Conductor - Aluminum Tape	0.291 in	Dielectric Constant	1.38																																					
Overall Braid - Tinned Copper	0.320 in	Time Delay	1.20 nS/ft																																					
Jacket	0.405 in	Impedance	50 ohms																																					
Bend Radius: installation	1.00 in	Capacitance	23.9 pF/ft																																					
Bend Radius: repeated	4.0 in	Inductance	0.060 uH/ft																																					
Bending Moment	0.5 ft-lb	Shielding Effectiveness	>90 dB																																					
Weight	0.068 lb/ft	DC Resistance																																						
Tensile Strength	160 lb	Inner Conductor	1.39 ohms/1000ft																																					
Flat Plate Crush	40 lb/in	Outer Conductor	1.65 ohms/1000ft																																					
Installation Temperature Range	-40° F to +185° F	Voltage Withstand	2500 Volts DC																																					
Storage Temperature Range	-94° F to +185° F	Jacket Spark	8000 Volts RMS																																					
Operating Temperature Range	-40° F to +185° F	Peak Power	16 kW																																					

Part #	Description	UOM
TM-LMR-400	LMR-400 3/8" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET	Per Ft
TM-LMR-400-1000	LMR-400-1000 3/8" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET 1000 FT REEL	1000 Ft. Reel
TM-LMR-400-500	LMR-400-500 3/8" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET 500 FT REEL	500 Ft. Reel
TM-LMR-400-75	LMR-400-75 3/8" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET 75 OHM (RG-11 SIZE)	Per Ft.
TM-LMR-400-DB	LMR-400-DB, 3/8" FLEXIBLE LOW LOSS COAX WATERTIGHT, BLACK PE JACKET	Per Ft.
TM-LMR-400-DB-1000	LMR-400-DB-1000 3/8" FLEXIBLE LOW LOSS COAX WATERTIGHT LMR-400, BLACK PE JACKET (1000 FOOT REEL)	1000 Ft. Reel
TM-LMR-400-DB-2000	LMR-400-DB-2000 3/8" FLEXIBLE LOW LOSS COAX WATERTIGHT LMR-400, BLACK PE JACKET (2000 FOOT REEL)	2000 Ft. Reel
TM-LMR-400-DB-500	LMR-400-DB-500 3/8" FLEXIBLE LOW LOSS COAX WATERTIGHT LMR-400, BLACK PE JACKET (500 FOOT REEL)	500 Ft. Reel
TM-LMR-400-FR	LMR-400-FR, 3/8" FLEXIBLE LOW LOSS COAX W/NON-HOLGEN FR JKT, LISTED CMR/MPR (PCC-FT4)	Per Ft.
TM-LMR-400-FR-10	LMR-400-FR-1000, 3/8" FLEXIBLE LOW LOSS COAX W/NON-HOLGEN FR JKT, LISTED CMR/MPR (PCC-FT4)	1000 Ft. Reel
TM-LMR-400-FRPVC	LMR-400-FRPVC 3/8" FLEXIBLE LOW LOSS COAX W/FRPVC JKT, LISTED CMR/MPR (PCC-FT4)	Per Ft.
TM-LMR-400-FR-W	LMR-400-FR-W 3/8" FLEXIBLE LOW LOSS COAX W/OFF-WHITE, NON-HALOGEN FR JKT, LISTED CMR/MPR (PCC-FT4)	Per Ft.
TM-LMR-400-LLPL	LMR-400-LLPL 3/8" FLEXIBLE LOW LOSS COAX-LOW LOSS PLENUM, LISTED CMP/MPP (PCC-FT6), ORANGE JACKET	Per Fr.
TM-LMR-400-LLPL-1000	LMR-400-LLPL-1000 3/8" FLEXIBLE LOW LOSS COAX-LOW LOSS PLENUM, LISTED CMP/MPP (PCC-FT6), ORANGE JACKET 1000 FT REEL	1000 Ft. Reel
TM-LMR-400-LLPL-500	LMR-400-LLPL-500 3/8" FLEXIBLE LOW LOSS COAX-LOW LOSS PLENUM, LISTED CMP/MPP (PCC-FT6), ORANGE JACKET 500 FT REEL	500 Ft. Reel
TM-LMR-400-LW1000	LMR-400LW 1000 FT REEL LIGHT WEIGHT STANDARD CABLE, ALUMINUM BRAID, BLACK PE JACKET	1000 Ft. Reel
TM-LMR-400-LW500	LMR-400-LW 500 FT REEL LIGHT WEIGHT STANDARD CABLE, ALUMINUM BRAID, BLACK PE JACKET	1000 Ft. Reel
TM-LMR-400-UF	LMR-400-UF 3/8" FLEXIBLE LOW LOSS COAX CABLE/STRANDED CENTER CONDUCTOR AND TPE JACKET	Per Ft.
TM-LMR-400-UF-1000	LMR-400-UF-1000 3/8" FLEXIBLE LOW LOSS COAX LMR-400 ULTRAFLEX CABLE/STRANDED CENTER CONDUCTOR AND TPE JACKET (1000 FOOT REEL)	1000 Ft. Reel
TM-LMR-400-UF-500	LMR-400-UF-500 3/8" FLEXIBLE LOW LOSS COAX LMR-400 ULTRAFLEX CABLE/STRANDED CENTER CONDUCTOR AND TPE JACKET (500 FOOT REEL)	500 Ft. Reel

Rosenberger Braided Coax: TM-RBK-400



Material and Dimensions		
Inner Conductor	Bare Copper, Solid	2.74mm
Dielectric	Foamed PE	7.24mm
Braid 1	Aluminium Tape	7.39mm
Braid 2	Tin-Plated Copper Wire Braid	8.13mm
Jacket	Black PE; Waterproof Black PE; Black FRPE jacket	10.29mm
Electrical Data		
Impedance	50 Ω	
Capacitance	77pF/m	
Shielding Effectiveness	>90dB	
Max. Operating Voltage	3000V	
Max. Operating Frequency	6GHz	
VSWR	≤ 1.3 ≤ 1.4	DC-2.5GHz 2.5-3GHz

Attenuation values & power ratings	
<ul style="list-style-type: none"> Attenuation typical values at an air temperature of +20° Maximum attenuation value shall be 105% of the nominal attenuation value 	
Freq MHz	Attenuation dB/100m
150	5.58
450	9.84
900	14.41
1500	18.4
1800	20.4
2000	21.65
2500	24.54
5800	38.98
2000	40.0
2500	43.6

Mechanical Data	
Min. bending radius, single	25.4 mm
Min. bending radius, multiple	101.6 mm
Weight	100kg/km

Environmental Data	
Temperature range, Operating	-25°C to +70°C
2002/95/EC (RoHS)	Compliant

Part #	Description	UOM
TM-RBK-400	RBK-400 3/8" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET	Per Ft
TM-RBK-400-1000	RBK-400 3/8" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET 1000' SPOOL	1000 ft Reel
TM-RBK-400-1000-DB	RBK-400-DB 3/8" FLEXIBLE LOW LOSS COAX DIRECT BURIAL CABLE, BLACK PE JACKET 1000' SPOOL	1000 ft Reel
TM-RBK-400-500	RBK-400 3/8" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET 500' SPOOL	500 Ft. Reel
TM-RBK-400-500-DB	RBK-400-DB 3/8" FLEXIBLE LOW LOSS COAX DIRECT BURIAL CABLE, BLACK PE JACKET 500' SPOOL	500 Ft. Reel
TM-RBK-400-DB	RBK-400-DB 3/8" FLEXIBLE LOW LOSS COAX DIRECT BURIAL CABLE, BLACK PE JACKET	Per Ft

'TC' (solder-on center pin) Connectors for LMR[®] 400 and Rosenberger TM-RBK-400



TM-TC-400-NMC



TM-TC-400-NM



TM-TC-400-NMH-D-X



TM-TC-400-HNM



TM-TC-400-NFC



TM-TC400-NMC-RA-(A)

Part #	Description	UOM
TM-TC-400-716FC	TC-400-716FC 3/8" FLEXIBLE LOW LOSS COAX-7/16 DIN FEMALE (JACK) CLAMP CONNECTOR	Each
TM-TC-400-716MC	TC-400-716MC 3/8" FLEXIBLE LOW LOSS COAX- 7/16 DIN MALE (PLUG) CLAMP CONNECTOR	Each
TM-TC400-716MCRA	TC-400-716MC-RA 3/8" FLEXIBLE LOW LOSS COAX - 7/16 DIN MALE (PLUG) CLAMP CONNECTOR	Each
TM-TC-400-BM	TC-400-BM 3/8" FLEXIBLE LOW LOSS COAX - BNC-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-400-BM-75-X	TC-400-BM-75 3/8" FLEXIBLE LOW LOSS COAX TYPE BNC-MALE (PLUG) CRIMP CONNECTOR (CRIMP PIN) FOR LMR-400-75	Each
TM-TC-400-HNM	TC-400-HNM 3/8" FLEXIBLE LOW LOSS COAX HN-MALE (PLUG) CLAMP CONNECTOR	Each
TM-TC-400-MUHF	TC-400-MUHF 3/8" FLEXIBLE LOW LOSS COAX MINI-UHF (PLUG) CRIMP CONNECTOR	Each
TM-TC-400-NFC	TC-400-NFC 3/8" FLEXIBLE LOW LOSS COAX N-FEMALE (JACK) CLAMP CONNECTOR	Each
TM-TC-400NFCBH(A)	TC-400-NFC-BH (A) 3/8" FLEXIBLE LOW LOSS COAX N-FEMALE (JACK) CLAMP BULKHEAD CONNECTOR	Each
TM-TC-400-NF-PL	TC-400-NF-PL 3/8" FLEXIBLE LOW LOSS COAX N-FEMALE (JACK) CRIMP PLENUM CONNECTOR FOR LMR-400-LLPL CABLE	Each
TM-TC-400-NM	TC-400-NM 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP/KNURLED COUPLING NUT	Each
TM-TC-400-NM-75	TC-400-NM-75 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP CONNECTOR FOR LMR-400-75	Each
TM-TC400NM-75/50	TC-400-NM-75/50 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP CONNECTOR FOR LMR-400-75 (50 OHM INTERFACE)	Each
TM-TC-400-NMC	TC-400-NMC 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CLAMP CONNECTOR	Each
TM-TC-400-NMC-RA	TC-400-NMC-RA (A) N-MALE (PLUG) CLAMP RIGHT ANGLE CONNECTOR	Each
TM-TC400NMCRA(A)	TC-400-NMC-RA (A) 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CLAMP RIGHT ANGLE CONNECTOR	Each
TM-TC-400-NMH	TC-400-NMH 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP/HEX COUPLING NUT/SOLDER-ON CAPTIVATED PIN	Each
TM-TC-400-NMH-D-X	TC-400-NMH-D 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP/HEX COUPLING NUT/SOLDER-ON CAPTIVATED PIN	Each
TM-TC-400-NMH-PL	TC-400-NMH-PL 3/8" FLEXIBLE LOW LOSS COAX PLENUM N-MALE (PLUG) CRIMP FOR LMR-400-LLPL/SOLDERON CAPTIVATED PIN	Each
TM-TC-400-NMH-RA-D	TC-400-NMH-RA-D 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR	Each
TM-TC400NMHRASS	TC-400-NMH-RA-SS 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR/SOLDER-PIN; STAINLESS STEEL	Each
TM-TC-400-NM-RP	TC-400-NM-RP 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP CONNECTOR, REVERSE POLARITY (FEMALE PIN)	Each
TM-TC-400-QDSM	TC-400-QDSM 3/8" FLEXIBLE LOW LOSS COAX QDS-MALE (PLUG) CLAMP CONNECTOR	Each
TM-TC-400-SM	TC-400-SM 3/8" FLEXIBLE LOW LOSS COAX SMA-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-400-TF-RP	TC-400-TF-RP 3/8" FLEXIBLE LOW LOSS COAX TNC-FEMALE (JACK) CRIMP/REVERSE POLARITY (SOLDER-ON MALE PIN)	Each
TM-TC-400-TM-RA	TC-400-TM-RA 3/8" FLEXIBLE LOW LOSS COAX TNC-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR	Each
TM-TC-400-TM-RP	TC-400-TM-RP 3/8" FLEXIBLE LOW LOSS COAX TNC-MALE (PLUG) CRIMP/REVERSE POLARITY (SOLDER-ON FEMALE PIN)	Each
TM-TC-400-TM-X	TC-400-TM 3/8" FLEXIBLE LOW LOSS COAX TNC-MALE (PLUG) CRIMP CONNECTOR	Each

'EZ' Install (non-solder) Connectors for LMR[®] 400 and Rosenberger TM-RBK-400



TM-EZ-400-NMC-2



TM-EZ-400-NMH-X



TM-EZ-400-NMK



TM-EZ-400-NF



TM-EZ-400-NMH-RA



TM-EZ-400-NF-BH



TM-EZ-400-TM



TM-EZ-400-TM-RP



TM-EZ-400-UM



TM-EZ-400-NFC-2

Part #	Description	UOM
TM-EZ-400-FM-75	EZ-400-FM-75 3/8" FLEXIBLE LOW LOSS COAX F-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN) ; KNURLED	Each
TM-EZ-400-FMH-75	EZ-400-FMH-75 3/8" FLEXIBLE LOW LOSS COAX F-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN); HEX	Each
TM-EZ-400-NF	EZ-400-NF 3/8" FLEXIBLE LOW LOSS COAX N-FEMALE (JACK) CRIMP CONNECTOR, NON SOLDER PIN	Each
TM-EZ-400-NF-BH	EZ-400-NF-BH 3/8" FLEXIBLE LOW LOSS COAX N-FEMALE (JACK) CRIMP BULKHEAD/NON-SOLDER PIN	Each
TM-EZ-400-NM-75	EZ-400-NM-75 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN) FOR LMR-400-75	Each
TM-EZ-400-NMC-2	EZ-400-NMH-D 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CLAMP/NON-SOLDER PIN	Each
TM-EZ-400-NMH	EZ-400-NMH 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP/HEX COUPLING NUT/ NON-SOLDER PIN	Each
TM-EZ-400-NMH-PL	EZ-400-NMH-PL 3/8" FLEXIBLE LOW LOSS COAX PLENUM N-MALE (PLUG) CRIMP FOR LMR-400-LLPL/NON-SOLDER PIN	Each
TM-EZ-400-NMH-RA	EZ-400-NMH-RA 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR/NON-SOLDER PIN	Each
TM-EZ-400-NMH-X	EZ-400-NMH-X 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP/HEX COUPLING NUT/ NON-SOLDER PIN	Each
TM-EZ-400-NMK	EZ-400-NMK 3/8" FLEXIBLE LOW LOSS COAX N-MALE (PLUG) CRIMP CONNECTOR, KNURLED COUPLING NUT	Each
TM-EZ-400-TF-RP	EZ-400-TF-RP 3/8" FLEXIBLE LOW LOSS COAX TNC-FEMALE (JACK) CRIMP/REVERSE POLARITY (NON-SOLDER MALE PIN)	Each
TM-EZ-400-TM	EZ-400-TM 3/8" FLEXIBLE LOW LOSS COAX TNC-MALE (PLUG) CRIMP CONNECTOR/NON-SOLDER PIN	Each

LMR®-500 Flexible Low Loss Communications Coax



Mechanical Characteristics		Electrical Characteristics	
Inner Conductor - Solid BCCAI	0.142 in	Cutoff Frequency	12.6 GHz
Dielectric - Foam PE	0.370 in	Velocity of Propagation	86%
Outer Conductor - Aluminum Tape	0.376 in	Dielectric Constant	1.35
Overall Braid - Tinned Copper	0.405 in	Time Delay	1.18 nS/ft
Jacket	0.500 in	Impedance	50 ohms
Bend Radius: installation	1.25 in	Capacitance	23.6 pF/ft
Bend Radius: repeated	5.0 in	Inductance	0.059 uH/ft
Bending Moment	1.75 ft-lb	Shielding Effectiveness	>90 dB
Weight	0.097 lb/ft	DC Resistance	
Tensile Strength	260 lb	Inner Conductor	0.82 ohms/1000ft
Flat Plate Crush	50 lb/in	Outer Conductor	1.27 ohms/1000ft
Installation Temperature Range	-40° F to +185° F	Voltage Withstand	3000 Volts DC
Storage Temperature Range	-94° F to +185° F	Jacket Spark	8000 Volts RMS
Operating Temperature Range	-40° F to +185° F	Peak Power	22 kW

Attenuation values & power ratings		
Freq MHz	Attenuation dB/100ft	Mean power rating kW
30	0.5	4.4
50	0.7	3.93
150	1.2	1.931
220	1.5	1.583
450	2.2	1.088
900	3.1	0.752
1500	4.1	0.569
1800	4.6	0.515
2000	4.8	0.485
2500	5.5	0.428
5800	8.9	0.264

Part #	Description	UOM
TM-LMR-500	LMR-500 STANDARD CABLE, BLACK PE JACKET	Per Ft.
TM-LMR-500-DB	LMR-500 WITH WATERTIGHT BLACK PE JACKET	Per Ft.
TM-LMR-500-FR	LMR-500 WITH NON-HALOGEN FR JACKET	Per Ft.
TM-LMR-500-UF	LMR-500 WITH STRANDED CENTER CONDUCTOR AND TPE JACKET	Per Ft.



TM-TC-500-TM



TM-TC-500-NFC



TM-TC-500-NMC-RA



TM-TC-500-TM



TM-TC-500-UMC

Part #	Description	UOM
TM-TC-500-TM	TC-500-TM TNC-MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-500-NFC	TC-500-NFC N-FEMALE (JACK) CLAMP CONNECTOR	Each
TM-TC-500-NMC-RA	TC-500-NMC-RA N-MALE (PLUG) CLAMP RIGHT ANGLE CONNECTOR	Each
TM-TC-500-TM	TC-500-TM TNC MALE (PLUG) CRIMP CONNECTOR	Each
TM-TC-500-UMC	TC-500-UMC UHF-MALE (PLUG) CLAMP CONNECTOR	Each

LMR®-600 Flexible Low Loss Communications Coax



Mechanical Characteristics		Electrical Characteristics	
Inner Conductor - Solid BCCAI	0.176 in	Cutoff Frequency	10.3 GHz
Dielectric - Foam PE	0.455 in	Velocity of Propagation	87%
Outer Conductor - Aluminum Tape	0.461 in	Dielectric Constant	1.32
Overall Braid - Tinned Copper	0.490 in	Time Delay	1.17 nS/ft
Jacket	0.590 in	Impedance	50 ohms
Bend Radius: installation	1.50 in	Capacitance	23.4 pF/ft
Bend Radius: repeated	6.0 in	Inductance	0.058 uH/ft
Bending Moment	2.75 ft-lb	Shielding Effectiveness	>90 dB
Weight	0.131 lb/ft	DC Resistance	
Tensile Strength	350 lb	Inner Conductor	0.53 ohms/1000ft
Flat Plate Crush	60 lb/in	Outer Conductor	1.2 ohms/1000ft
Installation Temperature Range	-40° F to +185° F	Voltage Withstand	4000 Volts DC
Storage Temperature Range	-94° F to +185° F	Jacket Spark	8000 Volts RMS
Operating Temperature Range	-40° F to +185° F	Peak Power	40 kW

Attenuation values & power ratings		
Freq MHz	Attenuation dB/100ft	Mean power rating kW
30	0.4	5.51
50	0.5	4.24
150	1.0	2.41
220	1.2	1.97
450	1.7	1.35
900	2.5	0.93
1500	3.3	0.70
1800	3.7	0.63
2000	3.9	0.59
2500	4.4	0.52
5800	7.3	0.32

Part #	Description	UOM
TM-LMR-600	LMR-600 1/2" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET	Per Ft.
TM-LMR-600-1000	LMR-600-1000 1/2" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET (1000 FOOT REEL)	1000 Ft. Reel
TM-LMR-600-500	LMR-600-500 1/2" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET (500 FOOT REEL)	500 Ft. Reel
TM-LMR-600-75	LMR-600-75 1/2" FLEXIBLE LOW LOSS COAX STANDARD CABLE, BLACK PE JACKET, 75 OHM	Per Ft.
TM-LMR-600-75-DB	LMR-600-75-DB 1/2" FLEXIBLE LOW LOSS COAX STANDARD CABLE, WATERTIGHT, BLACK PE JACKET, 75 OHM	Per Ft.
TM-LMR-600-DB	LMR-600-DB, 1/2" FLEXIBLE LOW LOSS COAX WATERTIGHT, BLACK PE JACKET	Per Ft.
TM-LMR-600-DB-500	LMR-600-DB-500 1/2" FLEXIBLE LOW LOSS COAX LMR-600 WATERTIGHT, BLACK PE JACKET (500 FOOT REEL)	500 Ft. Reel
TM-LMR-600-FR	LMR-600-FR, 1/2" FLEXIBLE LOW LOSS COAX W/NON-HALOGEN FR JKT, LISTED CMR/MPR (PCC-FT4)	Per Ft.
TM-LMR-600-FR-1	LMR-600-FR-1000 REEL 1/2" FLEXIBLE LOW LOSS COAX W/NON-HOLGEN FR JKT, LISTED CMR/MPR (PCC-FT4) (1000 FOOT REEL)	1000 Ft. Reel
TM-LMR-600-FRPVC	LMR-600-FR-PVC 1/2" FLEXIBLE LOW LOSS COAX W/ FRPVC JKT, LISTED CMR/MPR (PCC-FT4)	Per Ft.
TM-LMR-600-LLPL	LMR-600-LLPL 1/2" FLEXIBLE LOW LOSS COAX-LOW LOSS PLENUM, LISTED CMP/MPP (PCC-FT6), ORANGE JACKET	Per Ft.
TM-LMR-600-LLPL-1000	LMR-600-LLPL 1/2" LOSS COAX (PLENUM), LISTED CMP/MPP (PCC-FT6), ORANGE JACKET 1000 FT REEL	1000 Ft. Reel
TM-LMR-600-LLPL-500	LMR-600-LLPL 1/2" FLEXIBLE LOW LOSS COAX (PLENUM), LISTED CMP/MPP (PCC-FT6), ORANGE JACKET 500 FT REEL	500 Ft. Reel
TM-LMR-600-LW-1000	LMR-600-LW-1000 REEL, 3/16 LIGHT WEIGHT STANDARD CABLE, ALUMINUM BRAID, BLACK PE JACKET	Per Ft.
TM-LMR-600-LW-500	LMR-600-LW-500 REEL, 3/16 LIGHT WEIGHT STANDARD CABLE, ALUMINUM BRAID, BLACK PE JACKET	Per Ft.
TM-LMR-600-UF	LMR-600-PVC 1/2" FLEXIBLE LOW LOSS COAX CABLE/STRANDED CENTER CONDUCTOR AND TPE JACKET	Per Ft.
TM-LMR-600-UF-500	LMR-600-UF-500 PVC 1/2" FLEXIBLE LOW LOSS COAX CABLE/STRANDED CENTER CONDUCTOR AND TPE JACKET (500 REEL)	500 Ft. Reel

LMR®600 'TC' (solder-on center pin) Connectors



TM-TC-600-NMC



TM-TC-600-NMH-D



TM-TC-600-HNM



TM-TC-600-NFC-BH



TM-TC-600-NF-BH



TM-TC-600-NMC-RA



TM-TC-600-NFH-RA



TM-TC-600-QDSM



TM-TC-600-UMC



TM-TC-600-LCM



TM-TC-600-716MC



TM-TC-600-716FC



TM-TC-600-716M-RA

Part #	Description	UOM
TM-TC-600-716FC	TC-600-716FC 7/16 DIN FEMALE CLAMP CONNECTOR	Each
TM-TC-600-716MC	TC-600-716MC 7/16 DIN MALE CLAMP CONNECTOR	Each
TM-TC-600-716M-RA-D	TC-600-716M-RA-D 7/16 DIN MALE CRIMP RIGHT ANGLE CONNECTOR	Each
TM-TC-600-HNM	TC-600-HNM HN-MALE (PLUG) CLAMP CONNECTOR	Each
TM-TC-600-LCM	TC-600-LCM LC-MALE (PLUG) CLAMP CONNECTOR	Each
TM-TC-600-LCM-PL	TC-600-LCM-PL LC-MALE (PLUG) CLAMP CONNECTOR FOR LMR-600-LLPL	Each
TM-TC-600-NF-BH	TC-600-NF-BH N-FEMALE (JACK) CRIMP BULKHEAD CONNECTOR	Each
TM-TC-600-NFC-BH	TC-600-NFC-BH N-FEMALE (JACK) CLAMP BULKHEAD CONNECTOR	Each
TM-TC-600-NF-PL	TC-600-NF-PL N-FEMALE (JACK) CRIMP CONNECTOR, FOR LMR-600-LLPL CABLE	Each
TM-TC-600-NMC	TC-600-NMC N-MALE (PLUG) CLAMP HEX COUPLING NUT CONNECTOR	Each
TM-TC-600-NMH	TC-600-NMH N-MALE (PLUG) CRIMP HEX COUPLING NUT CONNECTOR	Each
TM-TC-600-NMH-PL	TC-600-NMH-PL N-MALE (PLUG) CRIMP HEX COUPLING NUT CONNECTOR	Each
TM-TC-600-NMH-RA	TC-600-NMH-RA N-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR	Each
TM-TC-600-QDSM	TC-600-QDSM QDS-MALE (PLUG) CLAMP CONNECTOR	Each
TM-TC-600-TF-RP	TC-600-TF-RP TNC-FEMALE (JACK) CRIMP/REVERSE POLARITY (SOLDER-ON MALE PIN)	Each
TM-TC-600-TM-RP	TC-600-TM-RP TNC-MALE (PLUG) CRIMP/REVERSE POLARITY (SOLDER-ON FEMALE PIN)	Each
TM-TC-600-UMC	TC-600-UMC UHF-MALE (PLUG) CLAMP CONNECTOR	Each

LMR[®]600 'EZ' Install (non-solder) Connectors



TM-EZ-600-NMC-2



TM-EZ-600-NMK



TM-EZ-600-NMH-D



TM-EZ-600-NF



TM-EZ-600-NF-BH



TM-EZ-600-NMH-RA



TM-EZ-600-TM



TM-EZ-600-TM-RP



TM-EZ-600-TF-RP



TM-EZ-600-UM



TM-EZ-600-716MH



TM-EZ-600-78EIA

Part #	Description	UOM
TM-EZ-600-716MH-X	EZ-600-716MH-X 7/16 DIN MALE CRIMP HEX COUPLING/NON-SOLDER PIN	Each
TM-EZ-600-78 EIA	EZ-600-78 EIA 7/8 EIA FLANGE CLAMP CONNECTOR	Each
TM-EZ-600-FMH-75	EZ-600-FMH-75 F-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN) FOR LMR-600-75	Each
TM-EZ-600-NF	EZ-600-NF N-FEMALE (JACK) CRIMP CONNECTOR, NON SOLDER PIN	Each
TM-EZ-600-NF-BH	EZ-600-NF-BH N-FEMALE (JACK) CRIMP BULKHEAD CONNECTOR/NON-SOLDER PIN	Each
TM-EZ-600-NM-75	EZ-600-NM-75 N-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN) FOR LMR-600-75	Each
TM-EZ-600-NMC-2	EZ-600-NMC-2 N-MALE (PLUG) CLAMP CONNECTOR/NON-SOLDER PIN, 2 PIECE DESIGN	Each
TM-EZ-600-NMH-75	EZ-600-NMH-75 N-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN) FOR LMR-600-75	Each
TM-EZ600NMH75/50	EZ-600-NMH-75/50 N-MALE (PLUG) CRIMP CONNECTOR (NON-SOLDER PIN) FOR LMR-600-75 (50 OHM INTERFACE)	Each
TM-EZ-600-NMH-PL	EZ-600-NMH-PL N-MALE (PLUG) CRIMP FOR LMR-600-LLPL/NON-SOLDER PIN	Each
TM-EZ-600-NMH-RA-X	EZ-600-NMH-RA-X N-MALE (PLUG) CRIMP RIGHT ANGLE CONNECTOR/NON-SOLDER PIN	Each
TM-EZ-600-NMH-X	EZ-600-NMH-D N-MALE (PLUG) CRIMP HEX/KNURL COUPLING NUT/NON-SOLDER PIN FOR USE TO 8 GHZ	Each
TM-EZ-600-NMK	EZ-600-NMK N-MALE (PLUG) CRIMP KNURLED COUPLING NUT/NON-SOLDER	Each
TM-EZ-600-TF-RP	EZ-600-TF-RP TNC-FEMALE (JACK) CRIMP/REVERSE POLARITY (NON-SOLDER MALE PIN)	Each
TM-EZ-600-TM-RP	EZ-600-TM-RP TNC-MALE (PLUG) CRIMP/REVERSE POLARITY (NON-SOLDER FEMALE PIN)	Each
TM-EZ-600-TM-X	EZ-600-TM TNC-MALE (PLUG) CRIMP CONNECTOR/NON-SOLDER PIN	Each
TM-EZ-600-UM	EZ-600-UM UHF-MALE (PLUG) CRIMP CONNECTOR/NON-SOLDER PIN	Each

LMR®-900 Flexible Low Loss Communications Coax & Connectors



Mechanical Characteristics		Electrical Characteristics	
Inner Conductor - Solid BCCAI	0.262 in	Cutoff Frequency	6.9 GHz
Dielectric - Foam PE	0.680 in	Velocity of Propagation	87%
Outer Conductor - Aluminum Tape	0.686 in	Dielectric Constant	1.32
Overall Braid - Tinned Copper	0.732 in	Time Delay	1.17 nS/ft
Jacket	0.870 in	Impedance	50 ohms
Bend Radius: installation	3.00 in	Capacitance	23.4 pF/ft
Bend Radius: repeated	9.0 in	Inductance	0.058 uH/ft
Bending Moment	9.0 ft-lb	Shielding Effectiveness	>90 dB
Weight	0.266 lb/ft	DC Resistance	
Tensile Strength	750 lb	Inner Conductor	0.54 ohms/1000ft
Flat Plate Crush	100 lb/in	Outer Conductor	0.55 ohms/1000ft
Installation Temperature Range	-40° F to +185° F	Voltage Withstand	5000 Volts DC
Storage Temperature Range	-94° F to +185° F	Jacket Spark	8000 Volts RMS
Operating Temperature Range	-40° F to +185° F	Peak Power	62 kW

Attenuation values & power ratings		
Freq MHz	Attenuation dB/100ft	Mean power rating kW
30	0.3	8.89
50	0.4	6.85
150	0.7	2.39
220	0.8	3.19
450	1.2	2.19
900	1.7	1.51
1500	2.2	1.14
1800	2.5	1.03
2000	2.6	0.97
2500	3.0	0.86
5800	4.9	0.52

Part #	Description	UOM
TM-LMR-900-DB	LMR-900 WITH WATERTIGHT BLACK PE JACKET	Per Ft.
TM-LMR-900-FR	LMR-900 WITH NON-HALOGEN FR JACKET	Per Ft.
TM-LMR-900-LLPL	LMR-900 LOW LOSS PLENUM, LISTED CMP/MPP (PCC-FT6), ORANGE JACKET	Per Ft.



TM-EZ-900-NMC-2



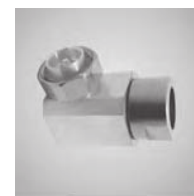
TM-EZ-900-NFC-2



TM-EZ-900-716MC-2



TM-EZ-900-716FC



TM-EZ-900-716-MC-RA



TM-EZ-900-78EIA-2

Part #	Description	UOM
TM-EZ-900-716FC	EZ-900-716FC, DIN-FEMALE CLAMP CONNECTOR	Each
TM-EZ-900-716MC-2	EZ-900-716MC-2, 7/16 DIN MALE CLAMP CONNECTOR	Each
TM-EZ-900-716-MC-RA	EZ-900-716-MC-RA 7/16 DIN MALE RIGHT ANGLE	Each
TM-EZ-900-78EIA-2	EZ-900-78EIA-2 7/8-EIA STRAIGHT	Each
TM-EZ-900-NFC-2	EZ-900-NFC-2, N-FEMALE CLAMP CONNECTOR	Each
TM-EZ-900-NMC-2	EZ-900-NMC-2, N-MALE CLAMP CONNECTOR	Each

LMR® Tools

Rosenberger Site Solutions presents a full portfolio of Times Microwave LMR tools to be used to connectorize cables from LMR 195 to LMR 900.



Strip Tools for EZ Connectors



Crimp Tool



Crimp Handle



Strip Tools for Clamp Style Connectors



Crimp Dies



Cutting Tool

Strip Tools for EZ Connectors	
Part Number	Description
ST-240EZ	Strip tool for EZ connectors
ST-400C-2	Prep tool for EZ-400-NMC-2 two piece clamp style connector
Strip Tools	
Part Number	Description
ST-400C	Prep tool for all LMR clamp style connectors except EZ-400-NMC-2
ST-400EZ	For Crimp Connectors (LMR 400)
ST-500C	For Clamp Style Connectors (LMR 500)
ST-600C	For Clamp Style Connectors (LMR 600)
ST-600EZ	For Crimp Style Connectors (LMR 600)
ST-900/1200C	For LMR 900 & 1200 Clamp Style Connectors
ST-900C	For LMR 900 Clamp Style Connectors
Crimp Tools	
Part Number	Description
CT-240/200/ 195/100	Crimp tool for LMR-100,195,200 and 240 connectors
CT-300/400	Crimp tool for LMR-300 connectors
CT-400/300	Crimp tool for LMR 400 connectors
Crimp Dies	
Part Number	Description
Y1719	.429" Hex Dies (for LMR 400)
Y151	.532" Hex Dies (for LMR 500)
Y1720	.610" Hex Dies (for LMR 600)
Cutting Tool	
Part Number	Description
CCT-01	Cable end flush cut tool

LMR® Tools



Deburr Tool



Mid-Span Strip Tool



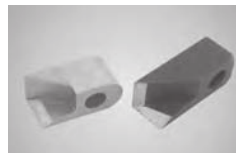
Wrench



Tool Kit



Crimp Ring



Replacement Blade

Deburr Tool	
Part Number	Description
DBT-U	Deburr tool for LMR 195, 200,240,300,400,500,600. Removes center conductor rough edges
Mid-Span Strip Tool	
Part #	Description
GST-400	For ground strap attachment (LMR 400)
GST-600A	For ground strap attachment (LMR 600)
GST-900A	For Ground Strap Attachment (LMR 900)
Wrench	
Part #	Description
WR600	15/16" Box Wrench (2 required for EZ-600-NMC-2)
WR-900	1-1/4" Box Wrench (2 required for EZ-900-NMC-2)
Crimp Rings	
Part #	Description
CR-400	Crimp rings for TC/EZ-400 connectors (package of 10)
CR-600	Crimp Rings for TC/EZ-600 connectors (pkg of 10)
Replacement Blades	
Part #	Description
RB-01	Replacement blade for cutting tool
RB-456	Replacement blades for Strip Tool (LMR 400, 500, 600)
Tool Kit	
Part #	Description
TK-400EZ	Tool kit for LMR-400 Crimp Connectors (includes CCT-01, ST-400EZ,CT-400/300, DBT-U, Tool Pouch)
TK-600EZ	Tool kit for LMR-600 Crimp Connectors (includes CCT-01, ST-600EZ, HX-4, Y1720, DBT-U, Tool Pouch)

Test Cables

NEW RTK 162 Armored Test Cables

Introducing Rosenberger RTK 162 Test Cables with Waterproof Interlock Stainless Steel Armor (FG Armor). When used as a port extension for test analyzers such as the Anritsu Site Master™, these quality high performance test cables preserve measurement stability and accuracy of the instrument. Enhanced durability is achieved by the use of an outer armor that protects the enclosed cable from abusive force.

Features:

- Impedance: 50 Ω
- Frequency: DC to 6 GHz
- Insertion Loss: ≤ 1.70 (dB) at 6 GHz
- Return Loss: ≥ 19 dB, DC to 6 GHz



Part #	Description
LU7-326-NMNM-1500	50 Ohm RTK 162 Test Cable with FG Armor. NMNM, 1.5 Meters
LU7-326-NMNM-3000	50 Ohm RTK 162 Test Cable with FG Armor. NMNM, 3.0 Meters
LU7-327-NMNF-1500	50 Ohm RTK 162 Test Cable with FG Armor. NMNF, 1.5 Meters
LU7-327-NMNF-3000	50 Ohm RTK 162 Test Cable with FG Armor. NMNF, 3.0 Meters
LU7-328-NMDM-1500	50 Ohm RTK 162 Test Cable with FG Armor. NMDM, 1.5 Meters
LU7-328-NMDM-3000	50 Ohm RTK 162 Test Cable with FG Armor. NMDM, 3.0 Meters
LU7-329-NMDF-1500	50 Ohm RTK 162 Test Cable with FG Armor. NMDF, 1.5 Meters
LU7-329-NMDF-3000	50 Ohm RTK 162 Test Cable with FG Armor. NMDF, 1.5 Meters

RFlex™ Test Cables

Like the armored version, Rosenberger RFlex™ quality test cables provide stability and preserve measurement accuracy of test analyzers such as the Anritsu Site Master™ when used as a port extension. A unique over molded strain relief and triple shield provide durable flexibility for field as well as bench test or interconnect applications.

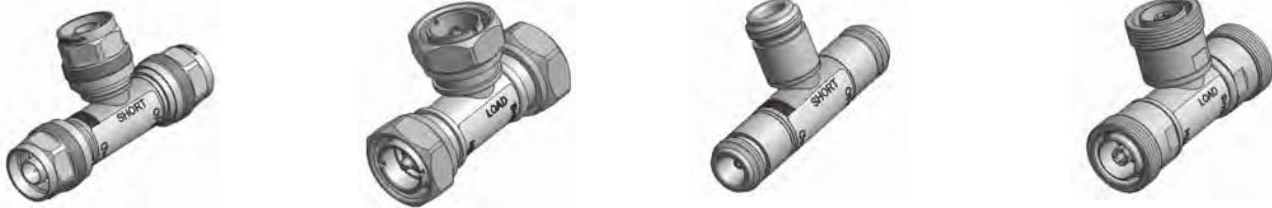
Part #	Description
AL-R-NMNF-3F	50 Ohm RFlex™ Test Cable, NMNF, 3 ft., DC to 6 GHz
AL-R-NMNF-6F	50 Ohm RFlex™ Test Cable, NMNF, 6 ft., DC to 6 GHz
AL-R-NMNM-3F	50 Ohm RFlex™ Test Cable, NMNM, 3 ft., DC to 6 GHz
AL-R-NMNM-6F	50 Ohm RFlex™ Test Cable, NMNM, 6 ft., DC to 6 GHz
AL-R-NMDF-3F	50 Ohm RFlex™ Test Cable, NMDF, 3 ft., DC to 6 GHz
AL-R-NMDF-6F	50 Ohm RFlex™ Test Cable, NMDF, 6 ft., DC to 6 GHz
AL-R-NMDM-3F	50 Ohm RFlex™ Test Cable, NMDM, 6 ft., DC to 6 GHz
AL-R-NMDM-6F	50 Ohm RFlex™ Test Cable, NMDM, 3 ft., DC to 6 GHz



Calibration Standard Terminations - OSL “T” Configuration

Rosenberger’s Open-Short-Load (OSL) unique “T” configuration integrates three termination standards into a single unit to simplify precision calibration of 50 ohm analyzers such as the Anritsu Site Master™.

The variety of available connector types facilitate calibration at the analyzer’s test port or its adapted extension to mate directly with the input port of the device under test.



Type-N Male	7-16 DIN Male	Type-N Female	7-16 DIN Female
AL-L3-NM-4 DC-4GHz	AL-L3-DM-4 DC-4 GHz	AL-L3-NF-4 DC-4 GHz	AL-L3-DF-4 DC-4 GHz
AL-L3-NM-6 DC-6 GHz	AL-L3-DM-6 DC-6 GHz	AL-L3-NF-6 DC-6 GHz	AL-L3-DF-6 DC-6 GHz

New 4.1-9.5/Mini-DIN OSL “T” Loads



Features:

- Mini-DIN/4.1-9.5 male and female loads
- Impedance 50 Ω
- Frequency DC to 6 GHz
- Center contact resistance ≤ 1.0 mΩ
- Outer contact resistance ≤ 0.1 mΩ

4.1-9.5 / Mini-DIN Male	4.1-9.5 / Mini-DIN Female
65S36R-MSON1 DC-6GHz	65K36R-MSON1 DC-6GHz

New 4.3-10 OSL “T” Loads



Features:

- 4.3-10 male and female loads
- Impedance 50 Ω
- Frequency DC to 6 GHz
- Center contact resistance ≤ 1.0 mΩ
- Outer contact resistance ≤ 0.1 mΩ

4.3-10 Male	4.3-10 Female
64S36R-MSON1 DC-6GHz	64K36R-MSON1 DC-6GHz

Precision Loads - 50 ohm

These high quality low VSWR precision loads are typically used to terminate system components at the characteristic impedance for purposes of testing and troubleshooting.



AL-60S-17R-001N1	AL-60K-17R-001N1	AL-05-S150-010S3	AL-05-K150-010S3
7-16 DIN Male 1 Watt	7-16 DIN Female 1 Watt	Type-N Male 0.5 Watt	Type-N Female 0.5 Watt
DC to 8 GHz	DC to 8 GHz	DC to 18 GHz	DC to 18 GHz

Terminations

Rosenberger broadband terminations offer a wide frequency bandwidth, low VSWR, and power handling ranges up to 200 Watts.



Part #	Frequency Band	VSWR	Power Rating		Connector (XX)
			Average	Peak	
L-2-XX	DC-3000	< 1.15	2	20	DM = 7-16 DIN Male DF = 7-16 DIN Female NM = N Male NF = N Female
L-5-XX	DC-3000	< 1.15	5	50	
L-10-XX	DC-3000	< 1.15	10	100	
L-15-XX	DC-3000	< 1.15	15	150	
L-20-XX	DC-3000	< 1.15	20	200	
L-25-XX	DC-3000	< 1.2	25	250	
L-30-XX	DC-3000	< 1.2	30	300	
L-50-XX	DC-3000	< 1.2	50	500	
L-100-XX	DC-3000	< 1.25	100	1000	
L-150-XX	DC-3000	< 1.25	150	1500	
L-200-XX	DC-3000	< 1.25	200	2000	

Attenuators

Rosenberger offers a wide range of attenuation values and power levels with wide bandwidth and low VSWR.



Model Number	Frequency (MHz)	VSWR	Power (W)		Attenuation value (XX) & accuracy					Connector
			Average	Peak	1-9	10	20	30	40	
A-XX-2-N	DC-3000	1.20	2	20	±0.40	±0.50	±0.50	±0.60	±0.60	N Male to N Female
A-XX-5-N	DC-3000	1.20	5	50	±0.40	±0.50	±0.50	±0.60	±0.60	N Male to N Female
A-XX-10-N	DC-3000	1.20	10	100	±0.40	±0.50	±0.60	±0.60	±1.00	N Male to N Female
A-XX-25-N	DC-3000	1.20	25	250	±0.40	±0.50	±0.60	±0.60	±1.00	N Male to N Female
A-XX-50-N	DC-3000	1.20	50	500	±0.60	±0.60	±0.60	±0.75	±1.00	N Male to N Female
A-XX-50-D	DC-3000	1.20	50	500	±0.60	±0.60	±0.60	±0.75	±1.00	7-16 DIN Male to 7-16 DIN Female
A-XX-100-N	DC-3000	1.35	100	1000	---	±0.50	±1.00	±1.20	±1.50	N Male to N Female
A-XX-100-D	DC-3000	1.30	100	1000	---	±0.60	±0.60	±0.75	±0.75	7-16 DIN Male to 7-16 DIN Female
A-XX-150-N	DC-3000	1.30	150	1500	---	±1.50	±1.00	±0.80	±0.80	N Male to N Female
A-XX-150-D	DC-3000	1.30	150	1500	---	±1.50	±1.00	±0.80	±0.80	7-16 DIN Male to 7-16 DIN Female
A-XX-200-N	DC-3000	1.35	200	2000	---	±1.25	±1.25	±0.80	±0.80	N Male to N Female
A-XX-200-D	DC-3000	1.35	200	2000	---	±1.25	±1.25	±0.80	±0.80	7-16 DIN Male to 7-16 DIN Female

Low VSWR Adapters

These precision adapters can be used at the test port of the analyzer or its extension cable to provide a compatible interface with the specified system test point before starting the calibration process. Low VSWR of the adapters insures optimum accuracy and stability for calibration and testing.



Part #	Description	UOM
53K101-K00N5	N Female to N Female	Each
53K160-K50N1	N Female to 7-16 DIN Female	Each
53S101-K00N5	N Female to N Male	Each
53S101-S00N5	N Male to N Male	Each
53S160-K50N1	N Male to 7-16 DIN Female	Each
53S160-S50N1	N Male to 7-16 DIN Male	Each
53S160-S50N1	N Male to N Male	Each
53S201-K00N5	N Male - N Female Right Angle	Each
53S201-K00N5	N Male to N Female Right Angle	Each
56S153-K00N5	TNC MALE to N Female	Each
60K101-K50N1	7-16 DIN Female to 7-16 DIN Female	Each
60K101-KIMN1	7-16 DIN Female to 7-16 DIN Female	Each
60S101-S50N1	7-16 DIN Male to 7-16 DIN Male	Each
60S101-K50N1	7-16 DIN Female to 7-16 DIN Male	Each
60S101-KIMN1	7-16 DIN Female to 7-16 DIN Male	Each
60S153-K50N1	N Female to 7-16 DIN Male	Each
SMA Adapters		
32K160-S00N5	SMA Female to 7-16 DIN Male	Each
32S153-K00L5	SMA Male to N Female	Each
32S153-S00L5	SMA Male to N Male	Each
32S160-S00N5	SMA Male to 7-16 DIN Male	Each
53K132-K00L5	N Female to SMA Female	Each
53S132-K00L5	N Male to SMA Female	Each
Mini-DIN / 4.1-9.5 Adapters		
53K165-KIMN1	MINI DIN / 4.1-9.5 Female to N Female	Each
60K165-KIMN1	MINI DIN / 4.1-9.5 Female to 7-16 DIN	Each
60S165-KIMN1	MINI DIN / 4.1-9.5 Female to 7-16 DIN Male	Each
60S165-SIMN1	MINI DIN / 4.1-9.5 Male to 7-16 DIN Male	Each
65S153-S50N1	MINI DIN / 4.1-9.5 to N Male	Each
New 4.3-10 Adapters		
05S164-S20S3	4.3-10 Male screw-on to RPC-N Male	Each
05K164-K20S3	4.3-10 Female to RPC-N Female	Each
53S164-K00N1	4.3-10 Female - N Male	Each
60S164-K00N1	4.3-10 Female to 7-16 Male	Each
60S164-S00N1	4.3-10 Male to 7-16 Male	Each
60K164-S00N1	4.3-10 Male to 7-16 Female	Each

Rosenberger RET Cable Assemblies

Rosenberger RET Control Cable. 8 Pin DIN Male-8 Pin DIN Female.

Mechanical Specifications	
AISG Connector A	8 Pin DIN Female
AISG Connector B	8 Pin DIN Male
Braid Coverage**	Coverage Rate ≥85 %
Data Conductor Type	0.32 mm ² (24 AWG) twisted pair
Data Conductors, quantity	2
Power Conductor Type	0.75 mm ² (20 AWG) stranded
Power Conductors, quantity	4
Total Conductors, quantity	6
Shield Material	Aluminum
Jacket Material	PVC(Anti-UV)
Color	Black
Diameter Over Jacket	8.00 mm

** Metal braided/armored version also available

Electrical Specifications	
Protocol	3GPP/AISG 2.0/AISG 1.1
Maximum Voltage	300 V

Environmental Specifications	
Temperature Range	-40°C to +70°C
Ingress Protection	IP67
RoHS Compliant	



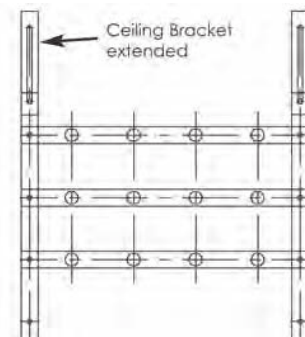
Pinouts	
Pin Number	Description
1	+12 VDC Nominal
2	No Connection
3	RS485B
4	RS485 Ground
5	RS485A
6	+24 VDC Nominal
7	DC Return
8	No Connection

Part #	Description	Length	UOM
L99-C133-500	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 0.5 Meter	0.5 Meters	Each
L99-C133-1000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 1 Meter	1 Meter	Each
L99-C133-2000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 2 Meter	2 Meters	Each
L99-C133-3000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 3 Meter	3 Meters	Each
L99-C133-4000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 4 Meter	4 Meters	Each
L99-C133-5000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 5 Meter	5 Meters	Each
L99-C133-10000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 10 Meter	10 Meters	Each
L99-C133-15000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 15 Meter	15 Meters	Each
L99-C133-20000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 20 Meter	20 Meters	Each
L99-C133-30000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 30 Meter	30 Meters	Each
L99-C133-40000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 40 Meter	40 Meters	Each
L99-C133-50000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 50 Meter	50 Meters	Each
L99-C133-60000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 60 Meter	60 Meters	Each
L99-C133-70000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 70 Meter	70 Meters	Each
L99-C133-80000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 80 Meter	80 Meters	Each
L99-C133-90000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 90 Meter	90 Meters	Each
L99-C133-100000	RET Control Cable, 8Pin DIN Male-8Pin DIN Female, 100 Meter	100 Meters	Each

Surge Arrestor Trapeze Kit

The Surge Arrestor Trapeze Kit is made of copper and designed to mount inside the shelter, lining up with the entry plate ports. An 8, 12 and 16 position version is available. Adjustable height brackets for mounting to the ceiling allows for perfect alignment.

Part/Order Number	Description	Quantity
PP TRAP 8	Surge Arrestor Trapeze Kit - Mounts 8 Surge Arresters	Ea
PP TRAP 12	Surge Arrestor Trapeze Kit - Mounts 12 Surge Arresters	Ea
PP TRAP 16	Surge Arrestor Trapeze Kit - Mounts 16 Surge Arresters	Ea
PP TRAP 18	Surge Arrestor Trapeze Kit - Mounts 18 Surge Arresters	Ea
PP TRAP 24	Surge Arrestor Trapeze Kit - Mounts 24 Surge Arresters	Ea



Polyphaser Filtered Lightning Protector - Main Transmission Line



Part/Order Number	Description	RF Power (Watts)	Freq. (Mhz)	Protected Side Connector	Surge Side Connector	Mounting
PP-DSXL-MA	DC Blocked High-Pass Filter Protector	500 - 750	700 - 2500	N Female	N Male	Bulkhead
PP-DSXL-MA-BF	DC Blocked High-Pass Filter Protector with BF Adapter	500 - 1000	700 - 2500	N Female	N Male	Bulkhead
PP-DSXL-DN-MA	DC Blocked High-Pass Filter Protector	500 - 1000	800 - 2300, 700 - 2500	N Female	DIN Male	Bulkhead
PP-DSXL-DN-MA-BF	DC Blocked High-Pass Filter Protector with Bulkhead to Flange Adapter	500 - 1000	800 - 2300, 700 - 2500	N Female	DIN Male	Bulkhead
PP-DSXL-D	DC Blocked High-Pass Filter Protector	500-750	800 - 2700	DIN Female	DIN Female	Bulkhead
PP-DSXL-D-BF	DC Blocked High-Pass Filter Protector with BF Adaptor	500-750	800 - 2700	DIN Female	DIN Female	Bulkhead
PP-DSXL-D-MA	DC Blocked High-Pass Filter Protector	500 - 1000	800 - 2300, 700 - 2500	DIN Female	DIN Male	Bulkhead
PP-DSXL-D-MA-BF	DC Blocked High-Pass Filter Protector with BF Adapter	500 - 1000	800 - 2300, 700 - 2500	DIN Female	DIN Male	Bulkhead
PP-DSXL	DC Blocked High-Pass Filter Protector	500-750	800 - 2700	N Female	N Female	Bulkhead
PP-DSXL-ME	DC Blocked High-Pass Filter Protector	500 - 1000	800 - 2300, 700 - 2500	N Male	N Female	Bulkhead

Polyphaser Filtered Lightning Protector - Microwave Link Protection

Part/Order Number	Description	RF Power (Watts)	Freq. (Mhz)	Protected Side Connector	Surge Side Connector	Mounting
PP-LSXL	High-Pass Filter Protector	10	1800 - 3800, 4200 - 6000	N Female	N Female	Bulkhead
PP-LSXL-BF	High-Pass Filter Protector with Bulkhead to Flange Adapter	10	1800 - 3800, 4200 - 6000	N Female	N Female	Bulkhead
PP-PSXL-D-ME	High-Pass Filter Protector	500-1000	1500 - 3000, 1700 - 2800	DIN Male	DIN Female	Bulkhead
PP-PSXL-MA	High-Pass Filter Protector	10	1800 - 3800, 4200 - 6000	N Female	N Male	Bulkhead

Polyphaser GPS and TTA Protection



Part/Order Number	Description	RF Power (Watts)	Freq. (MHz)	Protected Side Connector	Surge Side Connector	Mounting
PP-DGXZ+06DMDf-A	Dual path, DC pass RF protector, 6 Volts	300	800 - 2500	DIN Male	DIN Female	Flange or Bulkhead
PP-DGXZ+06NfNF-A	Dual path, DC pass RF protector, 6 Volts	300	800 - 2500	N Female	N Female	Flange or Bulkhead
PP-DGXZ+06NMNF-A	Dual path, DC pass RF protector, 6 Volts	300	800 - 2500	N Male	N Female	Flange or Bulkhead
PP-DGXZ+15DMDf-A	Dual path, DC pass RF protector, 15 Volts	300	800 - 2500	DIN Female	DIN Male	Flange or Bulkhead
PP-DGXZ+15NfNF-A	Dual path, DC pass RF protector, 15 Volts	300	800 - 2500	N Female	N Female	Flange or Bulkhead
PP-DGXZ+15NMNF-A	Dual path, DC pass RF protector, 15 Volts	300	800 - 2500	N Male	N Female	Flange or Bulkhead
PP-DGXZ+24DMDf-A	Dual path, DC pass RF protector, 24 Volts	300	800 - 2500	DIN Female	DIN Male	Flange or Bulkhead
PP-DGXZ+36NMNF-A	Dual path, DC pass RF protector, 36 Volts	300	800 - 2500	N Male	N Female	Flange or Bulkhead
PP-DGXZ+60NMNF-A	Dual path, DC pass RF protector, 60 Volts	300	800 - 2500	N Male	N Female	Flange or Bulkhead
PP-102-0620T-A	Polyphaser TTC Protection, 24 Volts	500	800 - 2500	DIN Male	DIN Female	Flange or Bulkhead

PolyPhaser Bulkhead Mount Combiner Protectors

Part/Order Number	RF Power (Watts)	Freq. (MHz)	Protected Side Connector	Surge Side Connector	Mounting
PP-VHF50HN	750	100-512	N Female	N Female	Bulkhead
PP-VHF50HN-MA	750	100-512	N Female	N Male	Bulkhead
PP-UHF50HN	750	300-700	DIN Female	DIN Female	Bulkhead
PP-ISCT50HN	750	800-900	N Female	N Female	Bulkhead
PP-ISCT50HN-MA	750	800-900	N Male	N Female	Bulkhead
PP-ISCT50HD	750	800-900	DIN Female	DIN Female	Bulkhead
PP-ISCT50HN-ME	750	800-900	N Female	N Male	Bulkhead
PP-ISPT50HN	750	890-980	N Female	N Female	Bulkhead
PP-ISPT50HD	750	890-980	DIN Female	DIN Female	Bulkhead
PP-ISPT50HD-MA	750	890-980	DIN Male	DIN Female	Bulkhead
PP-ISPT50HN-MA	750	890-980	N Male	N Female	Bulkhead
PP-ISPT50HN-ME	750	890-980	N Female	N Male	Bulkhead



Bulkhead Mount Broadband dc Blocked Protectors

Part/Order Number	RF Power (Watts)	Freq. (Mhz)	Protected Side Connector	Surge Side Connector	Mounting
PP-ISB50LN-CO	125	1.5-400	N Female	N Female	Bulkhead
PP-ISB50LN-CO-MA	125	1.5-400	N Female	N Male	Bulkhead
PP-ISB50LN-CO-ME	125	1.5-400	N Male	N Female	Bulkhead
PP-IS-B50LN-C1	125	50-700	N Female	N Female	Bulkhead
PP-ISB50LN-C1-MA	125	50-700	N Female	N Male	Bulkhead
PP-ISB50LN-C1-ME	125	50-700	N Male	N Female	Bulkhead
PP-IS-B50LN-C2	125	125-1000	N Female	N Female	Bulkhead
PP-ISB50LN-C2-MA	125	125-1000	N Female	N Male	Bulkhead
PP-ISB50LN-C2-ME	125	125-1000	N Male	N Female	Bulkhead



Flange Mount Broadband dc Blocked Protectors

Part/Order Number	RF Power (Watts)	Freq. (Mhz)	Protected Side Connector	Surge Side Connector	Mounting
PP-IS-50NX-CO	125 - 2000	1.5- 400	N Female	N Female	Flange
PP-IS-50NXCO-MA	125 - 2000	1.5- 400	N Female	N Male	Flange
PP-IS50NX-CO-ME	125 - 2000	1.5- 400	N Male	N Female	Flange
PP-IS-50NX-C1	125 - 375	50 - 700	N Female	N Female	Flange
PP-IS50NX-C1-MA	125 - 375	50 - 700	N Female	N Male	Flange
PP-IS50NX-C1-ME	125 - 375	50 - 700	N Male	N Female	Flange
PP-IS50NX-C2	125 - 375	125 - 1000	N Female	N Female	Flange
PP-IS50NX-C2-MA	125 - 375	125 - 1000	N Female	N Male	Flange
PP-IS50NX-C2-ME	125 - 375	125 - 1000	N Male	N Female	Flange



Rosenberger Wideband Surge Arrestors

**800-2500 MHz, 7/16 Bulkhead Female-Male**

Part #	Description	UOM
60BK561-S00N1	Surge Arrestor 800-2500 MHz, 7/16 Bulkhead Female-Male, 26 db,1700 to 2460 Mhz, 90 V Gas Capsule	Each

698-2200 MHz, 7/16 Bulkhead Female-Male

Part #	Description	UOM
60BK564-S090N1	Surge Arrestor Bulkhead 7/16 Din Female to Male 698 to 2200 Mhz.	Each

698-2200 MHz, 7/16 Bulkhead Female-Male

Part #	Description	UOM
60BK566-S090N1	Surge Arrestor Bulkhead 7/16 Din Female to Male 698 to 2700 Mhz. with d/c pass 90 volt capsule	Each
60BK566-S090N1-GR	Surge Arrestor Bulkhead 7/16 Din Female to Male 698 to 2700 Mhz. with d/c pass 90 volt capsule. Grounding kit w/ 60" lead and loose 2-hole lug included.	Each
60BK566-S230N1	Surge Arrestor Bulkhead 7/16 Din Female to Male 698 to 2700 Mhz. with d/c pass 230 volt capsule	Each

800-2500 MHz, 7/16 Bulkhead Female-Female

Part #	Description	UOM
60HK152-K00N1	Surge Arrestor 800-2500 Mhz 7/16 ANT Female-RXTX: Female	Each

800-2500 MHz, 7/16 Bulkhead Male-Female

Part #	Description	UOM
60HK152-S00N1	Surge Arrestor 800-2500 MHz, 7/16, ANT: Male-RXTX: Female	Each

800-2500 MHz, 7/16 Bulkhead Female-Male

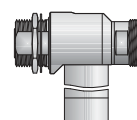
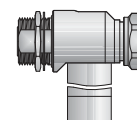
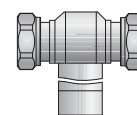
Part #	Description	UOM
60HK561-S00N1	Surge Arrestor 800-2500 MHz, 7/16 Bulkhead Female-Male, 26db,1700 to 2460 Mhz	Each

800-2700 MHz, 7/16 Bulkhead Female-Male

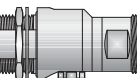
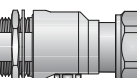
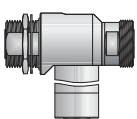
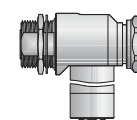
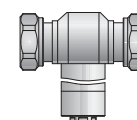
Part #	Description	UOM
60HK566-S00N1	Surge Arrestor 698 -2700 MHz, Bulkhead Mount 7/16" Din Male to 7/16" Din Female	Each

Rosenberger Wideband Surge Arrestors - DIN Series

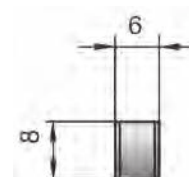
Wideband Surge Arrestors - DIN 716 Series			
Order Number	Part Number	Description	Return Loss
RLSA-60HS-161- S00 N1	60 HS 161- S00 N1	DIN 716 Male - DIN 716 Male, 800- 2500 MHz, grounded center contact Interface 1: DIN 716 Male Interface 2: DIN 716 Male	≥ 26 dB, 800 to 960 MHz ≥ 21 dB, 960 to 1700 MHz ≥ 26 dB, 1700 to 2400 MHz ≥ 23 dB, 2400 to 2500 MHz
RLSA-60HK-561- S00 N1	60 HK 561- S00 N1	DIN 716 Male - DIN 716 Female, 800- 2500 MHz grounded center contact Interface 1: DIN 716 Male Interface 2: DIN 716 Female	≥ 26 dB, 800 to 960 MHz ≥ 21 dB, 960 to 1700 MHz ≥ 26 dB, 1700 to 2400 MHz ≥ 23 dB, 2400 to 2500 MHz
RLSA-60HK- 561- K00 N1	60 HK 561- K00 N1	DIN 716 Female - DIN 716 Female, 800- 2500 MHz, grounded center contact Interface 1: DIN 716 Female Interface 2: DIN 716 Female	≥ 26 dB, 800 to 960 MHz ≥ 21 dB, 960 to 1700 MHz ≥ 26 dB, 1700 to 2400 MHz ≥ 23 dB, 2400 to 2500 MHz



Wideband Surge Arrestors with Gas Capsule - DIN 716 Series			
Order Number	Part Number	Description	Return Loss
RLSA-60BS- 161- S00-N1	60 BS 161- S00 N1	DIN 716 Male - DIN 716 Male, 800- 2500 MHz, discharge tube 90 V included Interface 1: DIN 716 Male Interface 2: DIN 716 Male	≥ 26 dB, 800 to 960 MHz ≥ 21 dB, 960 to 1700 MHz ≥ 26 dB, 1700 to 2500 MHz
RLSA-60BK- 561- S00-N1	60 BK 561- S00 N1	DIN 716 Male - DIN 716 Female, 800- 2500 MHz, discharge tube 90 V included Interface 1: DIN 716 Male Interface 2: DIN 716 Female	≥ 26 dB, 800 to 960 MHz ≥ 21 dB, 960 to 1700 MHz ≥ 26 dB, 1700 to 2500 MHz
RLSA-60BK-561- K00-N1	60 BK 561- K00 N1	DIN 716 Female - DIN 716 Female, 800- 2500 MHz, discharge tube 90 V included Interface 1: DIN 716 Female Interface 2: DIN 716 Female	≥ 26 dB, 800 to 960 MHz ≥ 21 dB, 960 to 1700 MHz ≥ 26 dB, 1700 to 2500 MHz
RLSA-60BK-531- S00-N1	60 BK 531- S00 N1	DIN 716 Male - DIN 716 Female, DC- 2200 MHz discharge tube 350 V included Interface 1: DIN 716 Male Interface 2: DIN 716 Female	≥ 30 dB, DC to 1,5 GHz ≥ 22 dB, 1,5 to 1,9 GHz ≥ 16 dB, 1,9 to 2.2 GHz
RLSA-60BK- 531- K00-N1	60 BK 531- K00 N1	DIN 716 Female - DIN 716 Female, DC- 2200 MHz discharge tube 350 V included Interface 1: DIN 716 Female Interface 2: DIN 716 Female	≥ 30 dB, DC to 1,5 GHz ≥ 22 dB, 1,5 to 1,9 GHz ≥ 16 dB, 1,9 to 2.2 GHz

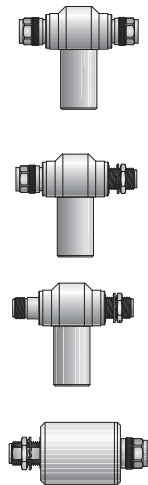


Gas Discharge Tubes for DIN 7-16 and N Series		
Order Number	Part Number	Description
RLSA-53 Z B01- 090	53 Z B01- 090	Norm. sparkover voltage 90 V
RLSA-53 Z B01- 230	53 Z B01- 230	Norm. sparkover voltage 230 V
RLSA-53 Z B01- 350	53 Z B01- 350	Norm. sparkover voltage 350 V



Rosenberger Wideband Surge Arrestors - N Series

Wideband Surge Arrestors - N Series			
Order Number	Part Number	Description	Return Loss
RLSA-53 HS 161- S00 N1	53 HS 161- S00 N1	N Male - N Male, 800- 2500 MHz Interface 1: N Male Interface 2: N Male	≥ 26 dB 800 MHz to 960 MHz ≥ 21 dB 960 MHz to 1700 MHz ≥ 26 dB, 1700 to 2400 MHz ≥ 23 dB, 2400 to 2500 MHz
RLSA-53 HK 561- S00 N1	53 HK 561- S00 N1	N Male - N Female , 800- 2500 MHz Interface 1: N Male Interface 2: N Female	≥ 26 dB 800 MHz to 960 MHz ≥ 21 dB 960 MHz to 1700 MHz ≥ 26 dB, 1700 to 2400 MHz ≥ 23 dB, 2400 to 2500 MHz
RLSA-53 HK 561- K00 N1	53 HK 561- K00 N1	N Female - N Female, 800- 2500 MHz, Interface 1: N Female Interface 2: N Female	≥ 26 dB 800 MHz to 960 MHz ≥ 21 dB 960 MHz to 1700 MHz ≥ 26 dB, 1700 to 2400 MHz ≥ 23 dB, 2400 to 2500 MHz
RLSA-53 HK 501- S00 N1	53 HK 501- S00 N1	N Male - N Female, 800- 2500 MHz , Grounded center contact Antenna Side: N Male Protected Side: N Female	≥ 23 dB, 800 to 880 MHz ≥ 26 dB, 880 to 2400 MHz ≥ 23 dB, 2400 to 2500 MHz



Wideband Surge Arrestors -with Gas Capsule N Series			
Order Number	Part Number	Description	Return Loss
RLSA-53 HK 501- K00 N1	53 HK 501- K00 N1	N Female - N Female 800- 2500 MHz Grounded center contact Antenna Side: N Female Protected Side: N Female	≥ 23 dB, 800 to 880 MHz ≥ 26 dB, 880 to 2400 MHz ≥ 23 dB, 2400 to 2500 MHz
RLSA-53 BS 161- S00 N1	53 BS 161- S00 N1	N Male - N Male, 800- 2500 MHz discharge tube 90 V included Interface 1: N Male Interface 2: N Male	≥ 26 dB 800 MHz to 960 MHz ≥ 21 dB 960 MHz to 1700 MHz ≥ 26 dB 1700 MHz to 2500 MHz
RLSA-53 BK 561- S00 N1	53 BK 561- S00 N1	N Male - N Female, 800- 2500 MHz discharge tube 90 V included Interface 1: N Male Interface 2: N Female	≥ 26 dB 800 MHz to 960 MHz ≥ 21 dB 960 MHz to 1700 MHz ≥ 26 dB 1700 MHz to 2500 MHz
RLSA-53 BK 561- K00 N1	53 BK 561- K00 N1	N Female - N Female, DC 800- 2500 MHz discharge tube 90 V included Interface 1: N Female Interface 2: N Female	≥ 26 dB 800 MHz to 960 MHz ≥ 21 dB 960 MHz to 1700 MHz ≥ 26 dB 1700 MHz to 2500 MHz
RLSA-53 BK 501- S00 N1	53 BK 501- S00 N1	N Female - N Male, DC- 2500 MHz discharge tube Not included Interface 1: N Female Interface 2: N Male	≥ 30 dB, DC to 1 GHz ≥ 17 dB, 1 to 2 GHz ≥ 10 dB, 2 to 3 GHz
RLSA-53 BK 501- K00 N1	53 BK 501- K00 N1	N Female - N Female, DC- 2500 MHz discharge tube Not included Interface 1: N Female Interface 2: N Female	≥ 30 dB, DC to 1 GHz ≥ 17 dB, 1 to 2 GHz ≥ 10 dB, 2 to 3 GHz

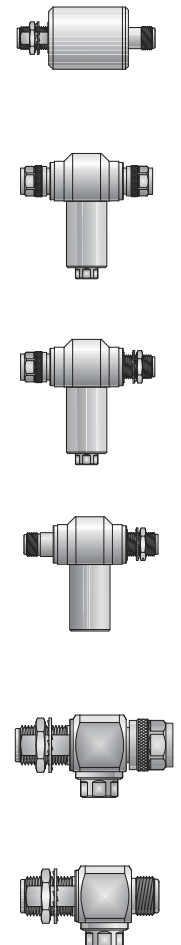


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53S215-C02N1	18	65S36R-MSON1	52	L99-C133-80000	56
53S215-C09N1	18	65S153-S50N1	55	L99-C133-90000	56
56S153-K00N5	55	AL-L3-DF-4	52	L99-C133-100000	56
60BK561-S00N1	60	AL-L3-DF-6	52	L-100-XX	53
60BK564-S090N1	60	AL-L3-DM-4	52	L-150-XX	53
60BK566-S090N1	60	AL-L3-DM-6	52	L-200-XX	53
60BK566-S090N1-GR	60	AL-L3-NF-4	52	LU7-326-NMNM-1500	51
60BK566-S230N1	60	AL-L3-NF-6	52	LU7-326-NMNM-3000	51
60HK152-K00N1	60	AL-L3-NM-4	52	LU7-327-NMNF-1500	51
60HK152-S00N1	60	AL-L3-NM-6	52	LU7-327-NMNF-3000	51
60HK561-S00N1	60	AL-R-NMDF-3F	51	LU7-328-NMDM-1500	51
60HK566-S00N1	60	AL-R-NMDF-6F	51	LU7-328-NMDM-3000	51
60K1C7-C03N1	17	AL-R-NMDM-3F	51	LU7-329-NMDF-1500	51
60K1C7-C08N1	17	AL-R-NMDM-6F	51	LU7-329-NMDF-3000	51
60K1C7-C09N1	17	AL-R-NMNF-3F	51	PP-102-0620T-A	58
60K1C7-CX5N1	17	AL-R-NMNF-6F	51	PP-DGXZ+06DMDF-A	58
60K1D7-C07N1	17	AL-R-NMNM-3F	51	PP-DGXZ+06NMF-A	58
60K1D7-C07N1	17	AL-R-NMNM-6F	51	PP-DGXZ+15DMDF-A	58
60K101-K50N1	55	A-XX-2-N	54	PP-DGXZ+15NMF-A	58
60K101-KIMN1	55	A-XX-5-N	54	PP-DGXZ+15NMNF-A	58
60K115-C02N1	17	A-XX-10-N	54	PP-DGXZ+24DMDF-A	58
60K164-S00N1	55	A-XX-25-N	54	PP-DGXZ+36NMNF-A	58
60K165-KIMN1	55	A-XX-50-D	54	PP-DGXZ+60NMNF-A	58
60S1C7-C03N1	17	A-XX-50-N	54	PP-DSXL	57
		A-XX-100-D	54	PP-DSXL-D	57
		A-XX-100-N	54		

PP-DSXL-D-BF	57	RLCX-SL114R U FRNC	10	SLJ12RP-60M60M-10m-00	30
PP-DSXL-D-MA	57	RLCX-SL114R U PE	10	SLJ12RP-60M60M-12ft-00	30
PP-DSXL-D-MA-BF	57	RLCX-SL158R U FRNC	11	SLJ12RP-60M60M-15ft-00	30
PP-DSXL-DN-MA	57	RLCX-SL158R U PE	11	SLJ12RP-60M60M-20ft-00	30
PP-DSXL-DN-MA-BF	57	RLSA-53 BK 501- K00 N1	62	SLJ12RP-60M60M-20m-00	30
PP-DSXL-MA	57	RLSA-53 BK 501- S00 N1	62	SLJ12RP-60M60R-1m-00	30
PP-DSXL-MA-BF	57	RLSA-53 BK 561- K00 N1	62	SLJ12RP-60M60R-2ft-00	30
PP-DSXL-ME	57	RLSA-53 BK 561- S00 N1	62	SLJ12RP-60M60R-2m-00	30
PP-IS-50NX-C1	59	RLSA-53 BS 161- S00 N1	62	SLJ12RP-60M60R-3ft-00	30
PP-IS50NX-C1-MA	59	RLSA-53 HK 501- K00 N1	62	SLJ12RP-60M60R-3m-00	30
PP-IS50NX-C1-ME	59	RLSA-53 HK 501- S00 N1	62	SLJ12RP-60M60R-4ft-00	30
PP-IS50NX-C2	59	RLSA-53 HK 561- K00 N1	62	SLJ12RP-60M60R-4m-00	30
PP-IS50NX-C2-MA	59	RLSA-53 HK 561- S00 N1	62	SLJ12RP-60M60R-5m-00	30
PP-IS50NX-C2-ME	59	RLSA-53 HS 161- S00 N1	62	SLJ12RP-60M60R-6ft-00	30
PP-IS-50NX-CO	59	RLSA-53 Z B01- 090	61	SLJ12RP-60M60R-6m-00	30
PP-IS-50NXCO-MA	59	RLSA-53 Z B01- 230	61	SLJ12RP-60M60R-8ft-00	30
PP-IS50NX-CO-ME	59	RLSA-53 Z B01- 350	61	SLJ12RP-60M60R-8m-00	30
PP-IS-B50LN-C1	59	RLSA-60BK- 531- K00-N1	61	SLJ12RP-60M60R-10ft-00	30
PP-ISB50LN-C1-MA	59	RLSA-60BK-531- S00-N1	61	SLJ12RP-60M60R-10m-00	30
PP-ISB50LN-C1-ME	59	RLSA-60BK-561- K00-N1	61	SLJ12RP-60M60R-12ft-00	30
PP-IS-B50LN-C2	59	RLSA-60BK- 561- S00-N1	61	SLJ12RP-60M60R-15ft-00	30
PP-ISB50LN-C2-MA	59	RLSA-60BS- 161- S00-N1	61	SLJ12RP-60M60R-20ft-00	30
PP-ISB50LN-C2-ME	59	RLSA-60HK- 561- K00 N1	61	SLJ12RP-60M60R-20m-00	30
PP-ISB50LN-CO	59	RLSA-60HK-561- S00 N1	61	SLJ12RP-64M64M-3m-00	31
PP-ISB50LN-CO-MA	59	RLSA-60HS-161- S00 N1	61	SLJ12RP-64M64M-4m-00	31
PP-ISB50LN-CO-ME	59	RLT-03C7-A50	23	SLJ12RP-64M64M-5m-00	31
PP-ISCT50HD	59	RLT-03FT-A51	23	SLJ12RP-64M64M-6m-00	31
PP-ISCT50HN	59	RLT-05C7-A54	24	SLJ12RP-65M65M-3m-00	31
PP-ISCT50HN-MA	59	RLT-05FT-A55	24	SLJ12RP-65M65M-4m-00	31
PP-ISCT50HN-ME	59	RLT-06D7-A57	24	SLJ12RP-65M65M-5m-00	31
PP-ISPT50HD	59	RLT-06FT-A58	25	SLJ12RP-65M65M-6m-00	31
PP-ISPT50HD-MA	59	RLT-07D7-A59	25	SLJ12SP-60M60M-1m-00	29
PP-ISPT50HN	59	RLT-07FT-A60	25	SLJ12SP-60M60M-2ft-00	29
PP-ISPT50HN-MA	59	RLT-08C7-A45	23	SLJ12SP-60M60M-2m-00	29
PP-ISPT50HN-ME	59	RLT-53W010-000	26	SLJ12SP-60M60M-3ft-00	29
PP-LSXL	58	RLT-60W000-001	26	SLJ12SP-60M60M-3m-00	29
PP-LSXL-BF	58	RLT-Z857-W 45	26	SLJ12SP-60M60M-4ft-00	29
PP-PSXL-D-ME	58	RLT-Z857-W 56	26	SLJ12SP-60M60M-4m-00	29
PP-PSXL-MA	58	RLT-Z857-W1213	26	SLJ12SP-60M60M-5m-00	29
PP TRAP 8	57	RLT-Z857- W1415	26	SLJ12SP-60M60M-6ft-00	29
PP TRAP 12	57	RLT-Z857- W 1819	26	SLJ12SP-60M60M-6m-00	29
PP TRAP 16	57	RLT-Z857- W 2022	26	SLJ12SP-60M60M-8ft-00	29
PP TRAP 18	57	RLT-Z857- W 2123	26	SLJ12SP-60M60M-8m-00	29
PP TRAP 24	57	RLT-Z857- W 2422	26	SLJ12SP-60M60M-10ft-00	29
PP-UHF50HN	59	RLT-Z857-W 3230	26	SLJ12SP-60M60M-10m-00	29
PP-VHF50HN	59	S45056-Z857-A841	26	SLJ12SP-60M60M-12ft-00	29
PP-VHF50HN-MA	59	S45056-Z857-A842	26	SLJ12SP-60M60M-15ft-00	29
RB-01	50	S45056-Z857-A843	26	SLJ12SP-60M60M-20ft-00	29
RB-456	50	S45056-Z857-A844	26	SLJ12SP-60M60M-20m-00	29
RLCX-SL012R FRNC	7	S45056-Z857-A845	26	SLJ12SP-60M60R-1m-00	29
RLCX-SL012R PE	7	SLJ12RP-60M60M-1m-00	30	SLJ12SP-60M60R-2ft-00	29
RLCX-SL012S FRNC	15	SLJ12RP-60M60M-2ft-00	30	SLJ12SP-60M60R-2m-00	29
RLCX-SL012S PE	15	SLJ12RP-60M60M-2m-00	30	SLJ12SP-60M60R-3ft-00	29
RLCX-SL014R FRNC	5	SLJ12RP-60M60M-3ft-00	30	SLJ12SP-60M60R-3m-00	29
RLCX-SL014R PE	5	SLJ12RP-60M60M-3m-00	30	SLJ12SP-60M60R-4ft-00	29
RLCX-SL014S FRNC	13	SLJ12RP-60M60M-4ft-00	30	SLJ12SP-60M60R-4m-00	29
RLCX-SL014S PE	13	SLJ12RP-60M60M-4m-00	30	SLJ12SP-60M60R-5m-00	29
RLCX-SL038R FRNC	6	SLJ12RP-60M60M-5m-00	30	SLJ12SP-60M60R-6ft-00	29
RLCX-SL038R PE	6	SLJ12RP-60M60M-6ft-00	30	SLJ12SP-60M60R-6m-00	29
RLCX-SL038S FRNC	14	SLJ12RP-60M60M-6m-00	30	SLJ12SP-60M60R-8ft-00	29
RLCX-SL038S PE	14	SLJ12RP-60M60M-8ft-00	30	SLJ12SP-60M60R-8m-00	29
RLCX-SL078R U FRNC	9	SLJ12RP-60M60M-8m-00	30	SLJ12SP-60M60R-10ft-00	29
RLCX-SL078R U PE	9	SLJ12RP-60M60M-10ft-00	30	SLJ12SP-60M60R-10m-00	29

SLJ12SP-60M60R-12ft-00	29	TM-EZ-600-TF-RP	47	TM-LMR-500-DB	44
SLJ12SP-60M60R-15ft-00	29	TM-EZ-600-TM-RP	47	TM-LMR-500-FR	44
SLJ12SP-60M60R-20ft-00	29	TM-EZ-600-TM-X	47	TM-LMR-500-UF	44
SLJ12SP-60M60R-20m-00	29	TM-EZ-600-UM	47	TM-LMR-600	45
SLJ12SP-64M64M-3m-00	31	TM-EZ-900-78EIA-2	48	TM-LMR-600-75	45
SLJ12SP-64M64M-4m-00	31	TM-EZ-900-716FC	48	TM-LMR-600-75-DB	45
SLJ12SP-64M64M-5m-00	31	TM-EZ-900-716MC-2	48	TM-LMR-600-500	45
SLJ12SP-64M64M-6m-00	31	TM-EZ-900-716-MC-RA	48	TM-LMR-600-1000	45
SLJ12SP-65M65M-3m-00	31	TM-EZ-900-NFC-2	48	TM-LMR-600-DB	45
SLJ12SP-65M65M-4m-00	31	TM-EZ-900-NMC-2	48	TM-LMR-600-DB-500	45
SLJ12SP-65M65M-5m-00	31	TM-LMR-195	33	TM-LMR-600-FR	45
SLJ12SP-65M65M-6m-00	31	TM-LMR-195-500	33	TM-LMR-600-FR-1	45
ST-240EZ	49	TM-LMR-195-DB	33	TM-LMR-600-FRPVC	45
ST-400C	49	TM-LMR-195-DB-500	33	TM-LMR-600-LLPL	45
ST-400C-2	49	TM-LMR-195-FR	33	TM-LMR-600-LLPL-500	45
ST-400EZ	49	TM-LMR-195-FR-500	33	TM-LMR-600-LLPL-1000	45
ST-500C	49	TM-LMR-195-LLPL-W	33	TM-LMR-600-LW-500	45
ST-600C	49	TM-LMR-195-LW-500	33	TM-LMR-600-LW-1000	45
ST-600EZ	49	TM-LMR-200	34	TM-LMR-600-UF	45
ST-900/1200C	49	TM-LMR-200-75	34	TM-LMR-600-UF-500	45
ST-900C	49	TM-LMR-200-DB	34	TM-LMR-900-DB	48
TK-400EZ	50	TM-LMR-200-FR	34	TM-LMR-900-FR	48
TK-600EZ	50	TM-LMR-200-FR-PVC	34	TM-LMR-900-LLPL	48
TM-EZ-200-NM	34	TM-LMR-200-MA	34	TM-RBK-240	36
TM-EZ-240-FMH-75	38	TM-LMR-240	35	TM-RBK-240-500	36
TM-EZ-240-NM	38	TM-LMR-240-75	35	TM-RBK-240-1000	36
TM-EZ-240-NM-75	38	TM-LMR-240-500	35	TM-RBK-240-DB	36
TM-EZ-240-NMH-X	38	TM-LMR-240-1000	35	TM-RBK-240-FR	36
TM-EZ-240-QM-RA-X	38	TM-LMR-240-DB-500	35	TM-RBK-240-W	36
TM-EZ-240-QM-X	38	TM-LMR-240-FR-1000	35	TM-RBK-400	41
TM-EZ-240-SM-RA-X	38	TM-LMR-240-LLPL	35	TM-RBK-400-500	41
TM-EZ-240-SM-X	38	TM-LMR-240-LLPL-500	35	TM-RBK-400-500-DB	41
TM-EZ-240-TM-RP	38	TM-LMR-240-LLPL-1000	35	TM-RBK-400-1000	41
TM-EZ-240-TM-X	38	TM-LMR-240-MA	35	TM-RBK-400-1000-DB	41
TM-EZ-400-FM-75	43	TM-LMR-240-PVC	35	TM-RBK-400-DB	41
TM-EZ-400-FMH-75	43	TM-LMR-240-PVC-W	35	TM-TC-195-NM	33
TM-EZ-400-NF	43	TM-LMR-240-UF	35	TM-TC-195-NMH-RA-D	33
TM-EZ-400-NF-BH	43	TM-LMR-300	39	TM-TC-195-SM	33
TM-EZ-400-NM-75	43	TM-LMR-300-75	39	TM-TC-195-TM	33
TM-EZ-400-NMC-2	43	TM-LMR-300-DB	39	TM-TC-200-NM	34
TM-EZ-400-NMH	43	TM-LMR-300-FR	39	TM-TC-200-SM	34
TM-EZ-400-NMH-PL	43	TM-LMR-300-UF	39	TM-TC-200-TF	34
TM-EZ-400-NMH-RA	43	TM-LMR-400	40	TM-TC-200-TMC	34
TM-EZ-400-NMH-X	43	TM-LMR-400-75	40	TM-TC-240-BM-75-X	37
TM-EZ-400-NMK	43	TM-LMR-400-500	40	TM-TC-240-BMC	37
TM-EZ-400-TF-RP	43	TM-LMR-400-1000	40	TM-TC-240-BM-X	37
TM-EZ-400-TM	43	TM-LMR-400-DB	40	TM-TC-240-FMH-75	37
TM-EZ-400-TM-RA-X	47	TM-LMR-400-DB-500	40	TM-TC-240-FM-X	37
TM-EZ-400-TM-RP	47	TM-LMR-400-DB-1000	40	TM-TC-240-MUHF	37
TM-EZ-400-UM	47	TM-LMR-400-DB-2000	40	TM-TC-240NFBHF(A)	37
TM-EZ-600-78 EIA	47	TM-LMR-400-FR	40	TM-TC-240-NF-BH-X	37
TM-EZ-600-716MH-X	47	TM-LMR-400-FR-10	40	TM-TC-240-NMC	37
TM-EZ-600-FMH-75	47	TM-LMR-400-FRPVC	40	TM-TC-240-NMH	37
TM-EZ-600-NF	47	TM-LMR-400-FR-W	40	TM-TC-240-NMH-D	37
TM-EZ-600-NF-BH	47	TM-LMR-400-LLPL	40	TM-TC-240-NMRA(A)	37
TM-EZ-600-NM-75	47	TM-LMR-400-LLPL-500	40	TM-TC-240-SF-BH	37
TM-EZ-600-NMC-2	47	TM-LMR-400-LLPL-1000	40	TM-TC-240-SM	37
TM-EZ-600-NMH-75	47	TM-LMR-400-LW500	40	TM-TC-240-SM-RA	37
TM-EZ600NMH75/50	47	TM-LMR-400-LW1000	40	TM-TC-240-SM-RP	37
TM-EZ-600-NMH-PL	47	TM-LMR-400-UF	40	TM-TC-240-TM	37
TM-EZ-600-NMH-RA-X	47	TM-LMR-400-UF-500	40	TM-TC-240-TM-RA	37
TM-EZ-600-NMH-X	47	TM-LMR-400-UF-1000	40	TM-TC-300-BM-75	39
TM-EZ-600-NMK	47	TM-LMR-500	44	TM-TC-300-NM	39

TM-TC-300-SF-BH	39
TM-TC-300-TM	39
TM-TC-400-716FC	42
TM-TC-400-716MC	42
TM-TC400-716MCRA	42
TM-TC-400-BM	42
TM-TC-400-BM-75-X	42
TM-TC-400-HNM	42
TM-TC-400-MUHF	42
TM-TC-400-NFC	42
TM-TC-400NFCBH(A)	42
TM-TC-400-NF-PL	42
TM-TC-400-NM	42
TM-TC-400-NM-75	42
TM-TC400NM-75/50	42
TM-TC-400-NMC	42
TM-TC-400-NMC-RA	42
TM-TC400NMCRA(A)	42
TM-TC-400-NMH	42
TM-TC-400-NMH-D-X	42
TM-TC-400-NMH-PL	42
TM-TC-400-NMH-RA-D	42
TM-TC400NMHRASS	42
TM-TC-400-NM-RP	42
TM-TC-400-QDSM	42
TM-TC-400-SM	42
TM-TC-400-TF-RP	42
TM-TC-400-TM-RA	42
TM-TC-400-TM-RP	42
TM-TC-400-TM-X	42
TM-TC-500-NFC	44
TM-TC-500-NMC-RA	44
TM-TC-500-TM	44
TM-TC-500-TM	44
TM-TC-500-UMC	44
TM-TC-600-716FC	46
TM-TC-600-716MC	46
TM-TC-600-716M-RA-D	46
TM-TC-600-HNM	46
TM-TC-600-LCM	46
TM-TC-600-LCM-PL	46
TM-TC-600-NF-BH	46
TM-TC-600-NFC-BH	46
TM-TC-600-NF-PL	46
TM-TC-600-NMC	46
TM-TC-600-NMH	46
TM-TC-600-NMH-PL	46
TM-TC-600-NMH-RA	46
TM-TC-600-QDSM	46
TM-TC-600-TF-RP	46
TM-TC-600-TM-RP	46
TM-TC-600-UMC	46
WR600	50
WR-900	50

Rosenberger Site Solutions, LLC (“RSS”)
“Terms and Conditions of Purchase”
P.O. Box 4268, Lake Charles, Louisiana 70606-4268
Phone: (337)-598-5250 Fax: (337)-598-5290

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Contact Information and Locations

Rosenberger

Rosenberger Site Solutions, LLC

P.O. Box 4268
Lake Charles, LA 70606

Tel: 337-598-5250 | E-Mail: rlss@rlss.us

Fax: 337-598-5290 | Web: www.rlss.us



Central Location

Headquarters
102 Dupont Drive
Lake Charles, LA 70607
Tel: (337) - 598 5250
Fax: (337) - 598 5290

East Coast Location

Charlotte Metro Area
205 Quantz Dr.
Rock Hill, SC 29730
Tel: (803) - 233 3208
Fax: (803) - 233 2698

West Coast Location

Salt Lake City Area
1250 S. 3600 W.
Salt Lake City, UT 84104
Tel: (801) - 972 3525
Fax: (801) - 886 3215

Canadian Location

5690 Ambler Dr.
Mississauga, Ontario
L4W 2K9
Tel: (289) -628 2885
Fax: (905) - 212 9115

Call: 1(866) 598 5250 or visit www.RLSS.us