

Rosenberger

RosenbergerSLink™

MobileCom Infrastructure Site Solutions



Rosenberger Sales Worldwide

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Company Profile

Rosenberger, founded in 1958, is one of the leading manufacturers of high-frequency coaxial connectors worldwide. Our products play a key role in many high-tech industries, e. g. telecommunication, automotive electronics, test & measurement applications, medical electronics, data systems, etc.

The product range includes high-frequency coaxial connectors and cables, RF-test & measurement products, automotive connectors, as well as mobilecom infrastructure site solutions, e. g. connectors, cables or accessories for radio base stations. In addition, fiber optic products as well as cable assemblies are also available.

Our headquarters - with research & development, production and administrative departments - are located in Fridolfing, in the south-eastern part of Bavaria, Germany. Approximately 2.600 employees in our headquarters, manufacturing plants and sales offices in Europe, Asia as well as in North and South America take care of development, production and sales of our products.

Rosenberger is certified according to ISO/TS 16949:2002, ISO 9001 and ISO 14001.

Company Area



Quality

The quality of our products and services is an essential part of our corporate strategy. Rosenberger’s quality philosophy is not just to optimize components and products, but to continuously improve and optimize all processes to ensure customer satisfaction: from product development, planning, purchasing, production, sales, logistics and service to environmental policy – all in all, to offer maximum benefit to our customers all over the world.

Furthermore, our quality responsibility includes being proactive in protecting our environment and natural resources. We endeavour to avoid or minimize environmental pollution – even beyond the requirements of legal regulations whenever possible.

Environmental Directives

Connectors and cable assemblies manufactured by Rosenberger correspond to the following directives:

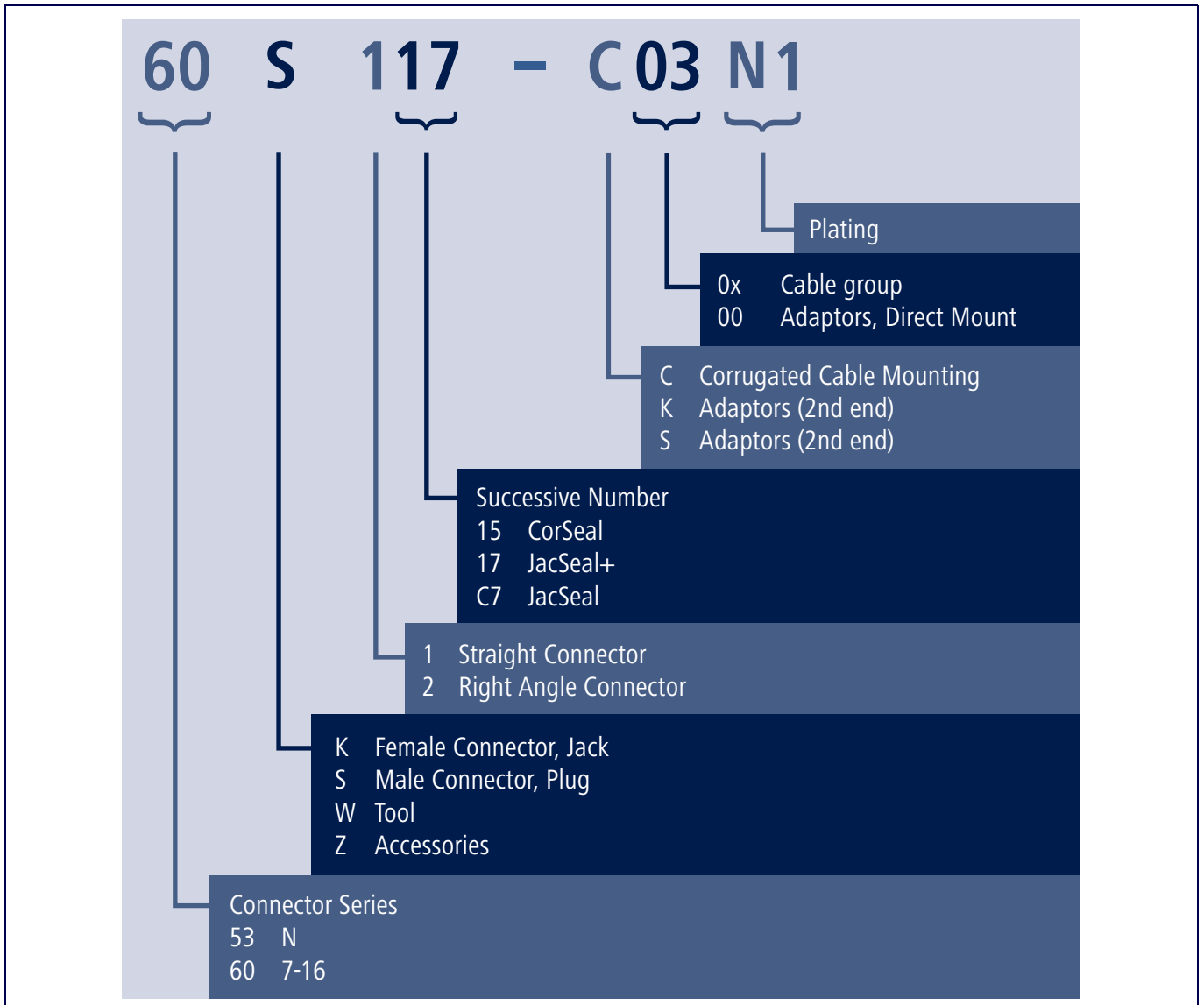
- 2002/95/EG – Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)
- 2002/96/EG – Waste Electrical and Electronic Equipment (WEEE)
- 2003/11/EG and 2000/53/EC – End of Life Vehicle (ELV)
- IEC 61760- 1 – max. soldering temperature + 260 °C for 10 sec. for PCB connectors.

The objective of the above mentioned directives is to avoid or to limit the use of the following hazardous substances:

- Lead
- Mercury
- Cadmium
- Chrome VI
- PBB (Polybrominated Biphenyls)
- PBDE (Polybrominated Diphenyl Ethers)



Number Designation



Cable Groups

Cable Group	Impedance	Cable Type
C01	50 Ω	Flexible Corrugated Cable 1/4"R
C02	50 Ω	Super Flexible Corrugated Cable 3/8"S
C03	50 Ω	Flexible Corrugated Cable 1/2"R
C05	50 Ω	Flexible Corrugated Cable 7/8"R
C06	50 Ω	Flexible Corrugated Cable 1 1/4"R
C07	50 Ω	Flexible Corrugated Cable 1 5/8"R
C08	50 Ω	Super Flexible Corrugated Cable 1/2"S
C09	50 Ω	Super Flexible Corrugated Cable 1/4"S

Plating Code

The used platings of outer and center contacts of Rosenberger connectors can be identified by each part number.

Example:

60 S 117- C03 N1

Plating outer contact: White bronze (N)

Plating center contact: Silver (1)

Standard plating codes of Rosenberger connectors

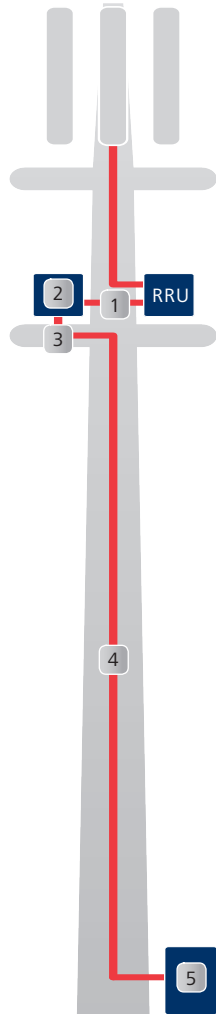
Outer Contact

Code	Plating	Symbol	Layer thickness	Magnetic properties
B	Silver	Ag	3.00 μm	Non magnetic
N	White bronze (e.g. Optalloy ®) Flash white bronze over silver (e.g. Optargen ®)			Non magnetic

Center Contact

Code	Plating	Symbol	Layer thickness	Magnetic properties
1	Silver	Ag	3.00 μm	Non magnetic
3	Gold	Au	1.27 μm	
5	Gold	Au	0.15 μm	non magnetic

Universal FTTA Solution



1 Outdoor connection/ jumper cables for remote radio units

Assembly properties:

- 2 fiber outdoor cable for use in harsh environment
- Available with dedicated fiber-optic outdoor connector (RDC) or any other standard duplex connector

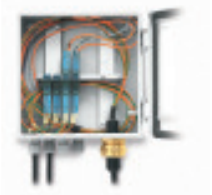
Packaging, delivery:

- Multi-fiber backbone cables can be packaged on plywood drums.
- The multi-fiber cable is spooled onto a drum. The outdoor distribution box can be fitted on the outer plywood wheel. Outdoor connection/ jumper cables can be preinstalled in distribution boxes and mounted to the plywood drum, protected by an extra cover against mechanical influences.



2 Weather proof distribution box

- Enclosure: sturdy box with mounts
- Door: hinged, 180° opening angle, cam lock to be opened by common tools, key-lock available
- Splash waterproof, air flow control for moisture release
- Built-in patching device, available with all common connector interfaces (e.g. LC, SC)
- Pre-installed latches for wall mounting or pole mounting



3 Pulling sock

The pulling sock is designed to be hoisted by hand or by any other common hoisting device



4 Multi fiber optical backbone cable for fast on-site installation

- The Rosenberger PreCONNECT® fiber-optic cabling system consists of factory-assembled loose tube cables with up to 24 fibers
- For safe installation, the fiber-optic connectors, fan-out legs and the cable dividers are protected inside an installation tube
- The installation tube is waterproof in conformity with IP67



Benefits of structured antenna mast cabling, product description

- Using well-known structured FO cabling technology
- Fundamental future-oriented technology that keeps its value even when active equipment is replaced
- Independent of specific applications
- Sturdy multi-fiber cable
- Interchangeable equipment access cables
- Connector interfaces conform to international standards at all interconnections

5 Excess cable storage

- Holds overlength of the fiber-optic backbone cable
- Available in various sizes and for wall mounting or rack



6 Fiber-optic equipment outlet enclosure

Transition point between outdoor backbone cable (4) and equipment jumpers (7) enable independence of the installed backbone regardless of changes in hardware interface. Ensures cabling remains within building regulations.



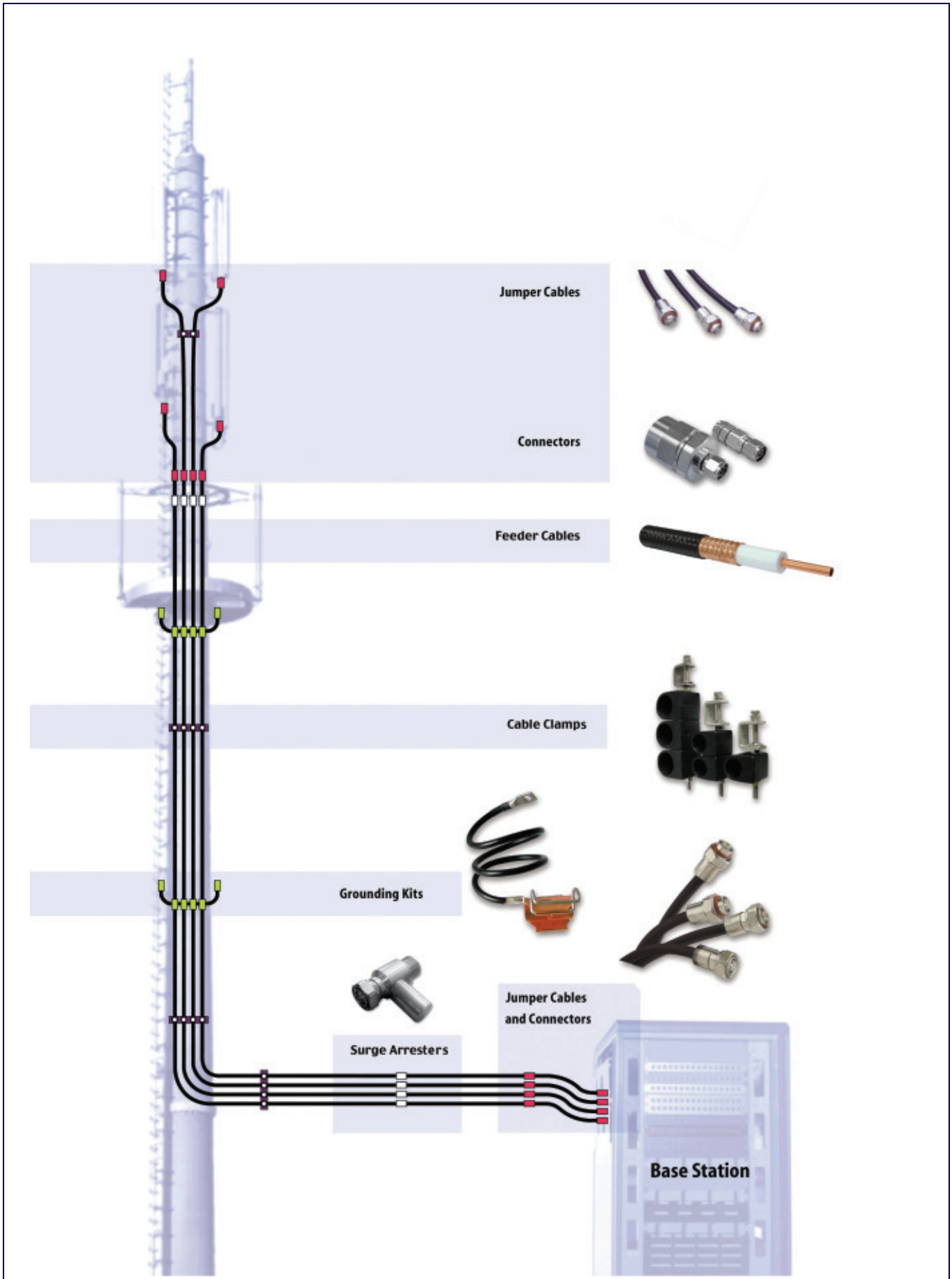
7 Indoor equipment jumper cable

- Cable properties: in compliance with most building regulations are available
- Connectors: all common standardized connectors available
- Equipment access cables guarantee the independenc



Detailed product information on request

Corrugated Cable Solution



Corrugated Cable Overview

	1/4"R	1/4"S	3/8"R	3/8"S	1/2"R	1/2"S	7/8"R	7/8"S	1 1/4"R	1 5/8"R
Jacket Flame retardend	SL 014R FRNC	SL 014S FRNC	SL 038R FRNC	SL 038S FRNC	SL 012R FRNC	SL 012S FRNC	SL 078R FRNC	SL 078S FRNC	SL 114R FRNC	SL 158R FRNC
Jacket PE	SL 014R PE	SL 014S PE	SL 038R PE	SL 038S PE	SL 012R PE	SL 012S PE	SL 078R PE	SL 078S PE	SL 114R PE	SL 158R PE
Jacket Flame retardend Low Loss							SL 078R L FRNC		SL 114R L FRNC	SL 158R L FRNC
Jacket PE Low Loss							SL 078R L PE		SL 114R L PE	SL 158R L PE

R = ring corrugation = Flexible Corrugated Cable

S = spiral corrugation = Super Flexible Corrugated Cable

Rosenberger SLink™ Flexible Corrugated Cables

RosenbergerSLink™ flexible cables feature annularly corrugated outer conductor and mainly used for cellular and personal communications, land mobile radio, earth station antenna jumpers, equipment room and antenna jumper etc.

Rosenberger offers a complete cable range from 1/4" R to 1 5/8" R. And the cables are constructed with inner conductor, foam dielectric, outer conductor and protective jacket.

The inner conductor is made of a copper clad aluminum wire, a smooth or corrugated copper tube according to cable size. With high conductivity copper, it can guarantee excellent low loss.

This foam insulator consists of a mixture of low dielectric polyethylene melted and extruded with an insert gas injection process. With low density, close and homogenous cell dielectric can ensure remarkable low loss and prevent water penetration.

The outer conductor is made of annularly welded copper tubes that provide excellent screening while offering flexibility.

R = ring corrugation

S = spiral corrugation



Flexible Corrugated Cables 1/4" R

Ordering Number	Remarks
SL 014R PE	Standard polyethylene jacket
SL 014R FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Copper clad alu wire	2.4 mm
Dielectric	Foamed PE	6.4 mm
Diameter over outer conductor	Ring corrugated copper tube	7.5 mm
Diameter over outer jacket	PE / FRNC	10.2 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	107 kg/km
	FRNC	129 kg/km
Tensile strength		600 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
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	2200 V
Relative velocity of propagation	83 %	Jacket spark, volts RMS	5000 V
Capacitance	80 pF/m	Inner conductor DC- resistance	5.7 Ω/km
Inductance	0.195 H/m	Outer conductor DC- resistance	3.5 Ω/km
Maximum operating frequency	15.8 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	19.0 GHz	Return loss 800 –1000 MHz	26 dB
Peak power rating	10.5 KW	Return loss 1700 – 2500 MHz	24 dB


Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	4.22	6.02	7.45	8.64	9.15	12.6	13.4	14.2	19.4	20.7	21.7	23.3
Mean power [kW]	1.79	1.25	1.00	0.85	0.82	0.58	0.55	0.52	0.38	0.35	0.34	0.31

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Flexible Corrugated Cables 3/8" R

Ordering Number	Remarks
SL 038R PE	Standard polyethylene jacket
SL 038R FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Copper clad alu wire	3.1 mm
Dielectric	Foamed PE	7.2 mm
Diameter over outer conductor	Ring corrugated copper tube	9.5 mm
Diameter over outer jacket	PE / FRNC	11.2 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	127 kg/km
	FRNC	132 kg/km
Tensile strength		600 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
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	2500 V
Relative velocity of propagation	88 %	Jacket spark, volts RMS	5000 V
Capacitance	76 pF/m	Inner conductor DC- resistance	3.8 Ω/km
Inductance	0.195 H/m	Outer conductor DC- resistance	2.9 Ω/km
Maximum operating frequency	13.5 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	15.1 GHz	Return loss 800 –1000 MHz	26 dB
Peak power rating	15.4 KW	Return loss 1700 – 2500 MHz	24 dB


Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	3.45	4.92	6.12	7.05	7.50	10.3	10.8	11.5	15.8	16.8	17.8	18.9
Mean power [kW]	2.16	1.51	1.23	1.05	0.99	0.72	0.69	0.65	0.47	0.44	0.41	0.39

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Flexible Corrugated Cables 1/2" R

Ordering Number	Remarks
SL 012R PE	Standard polyethylene jacket
SL 012R FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Copper clad alu wire	4.8 mm
Dielectric	Foamed PE	12.1 mm
Diameter over outer conductor	Ring corrugated copper tube	13.8 mm
Diameter over outer jacket	PE / FRNC	16.0 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	237 kg/km
	FRNC	266 kg/km
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
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	6000 V
Relative velocity of propagation	88 %	Jacket spark, volts RMS	8000 V
Capacitance	76 pF/m	Inner conductor DC- resistance	1.5 Ω/km
Inductance	0.190 H/m	Outer conductor DC- resistance	1.9 Ω/km
Maximum operating frequency	8.8 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	10.0 GHz	Return loss 800 –1000 MHz	26 dB
Peak power rating	40 KW	Return loss 1700 – 2500 MHz	24 dB

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	2.17	3.11	3.81	4.46	4.75	6.46	6.85	7.28	10.1	10.7	11.2	12.1
Mean power [kW]	3.53	2.45	1.99	1.72	1.59	1.17	1.10	1.04	0.75	0.71	0.67	0.62

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Flexible Corrugated Cables 7/8" R

Ordering Number	Remarks
SL 078R PE	Standard polyethylene jacket
SL 078R FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Copper tube	9.0 mm
Dielectric	Foamed PE	22.4 mm
Diameter over outer conductor	Ring corrugated copper tube	24.9 mm
Diameter over outer jacket	PE / FRNC	27.5 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	530 kg/km
	FRNC	587 kg/km
Tensile strength		1450 N
Min. bending radius, single		120 mm
Min. bending radius, repeated		250 mm
Number of bends, minimum (typical)		15 (50)
Bending moment		18 Nm
Flat plate crush strength		14 N/mm
Recommended hanger spacing		1.0 m
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	10000 V
Relative velocity of propagation	88 %	Jacket spark, volts RMS	8000 V
Capacitance	76 pF/m	Inner conductor DC- resistance	1.21 Ω/km
Inductance	0.190 H/m	Outer conductor DC- resistance	1.17 Ω/km
Maximum operating frequency	5.0 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	5.2 GHz	Return loss 800 –1000 MHz	26 dB
Peak power rating	91 KW	Return loss 1700 – 2500 MHz	24 dB

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	1.17	1.69	2.11	2.48	2.64	3.63	3.86	4.12	5.75	6.11	6.46	6.95
Mean power [kW]	9.17	6.27	4.51	3.97	3.73	2.48	2.34	2.19	1.73	1.63	1.40	1.33

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Flexible Corrugated Cables 1 1/4" R

Ordering Number	Remarks
SL 114R PE	Standard polyethylene jacket
SL 114R FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Copper tube	13.1 mm
Dielectric	Foamed PE	32.5 mm
Diameter over outer conductor	Ring corrugated copper tube	35.8 mm
Diameter over outer jacket	PE / FRNC	39.0 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	980 kg/km
	FRNC	1117 kg/km
Tensile strength		2500 N
Min. bending radius, single		200 mm
Min. bending radius, repeated		380 mm
Number of bends, minimum (typical)		15 (50)
Bending moment		50 Nm
Flat plate crush strength		20 N/mm
Recommended hanger spacing		1.2 m
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	10000 V
Relative velocity of propagation	88 %	Jacket spark, volts RMS	10000 V
Capacitance	76 pF/m	Inner conductor DC- resistance	0.7 Ω/km
Inductance	0.190 H/m	Outer conductor DC- resistance	0.54 Ω/km
Maximum operating frequency	3.3 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	3.7 GHz	Return loss 800 –1000 MHz	26 dB
Peak power rating	200 KW	Return loss 1700 – 2500 MHz	24 dB

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	0.82	1.19	1.55	1.81	1.92	2.66	2.85	3.03	4.27	4.48	4.75	5.14
Mean power [kW]	12.9	8.81	6.37	5.69	5.40	3.90	3.70	3.50	2.40	2.30	2.20	2.03

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Flexible Corrugated Cables 1 5/8" R

Ordering Number	Remarks
SL 158R PE	Standard polyethylene jacket
SL 158R FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Spiral corrugated copper tube	17.3 mm
Dielectric	Foamed PE	43.5 mm
Diameter over outer conductor	Ring corrugated copper tube	46.5 mm
Diameter over outer jacket	PE / FRNC	50.0 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	1185 kg/km
	FRNC	1349 kg/km
Tensile strength		3500 N
Min. bending radius, single		300 mm
Min. bending radius, repeated		510 mm
Number of bends, minimum (typical)		15 (50)
Bending moment		60 Nm
Flat plate crush strength		20 N/mm
Recommended hanger spacing		1.2 m
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	15000 V
Relative velocity of propagation	88 %	Jacket spark, volts RMS	10000 V
Capacitance	76 pF/m	Inner conductor DC- resistance	0.85 Ω/km
Inductance	0.190 H/m	Outer conductor DC- resistance	0.55 Ω/km
Maximum operating frequency	2.70 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	3.0 GHz	Return loss 800 –1000 MHz	23 dB
Peak power rating	310 KW	Return loss 1700 – 2500 MHz	23 dB

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	0.68	0.99	1.23	1.45	1.56	2.18	2.34	2.49	3.57	3.81	4.05	4.41
Mean power [kW]	18.0	11.8	9.46	8.02	7.45	5.33	4.97	4.67	3.26	3.05	2.87	2.64

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

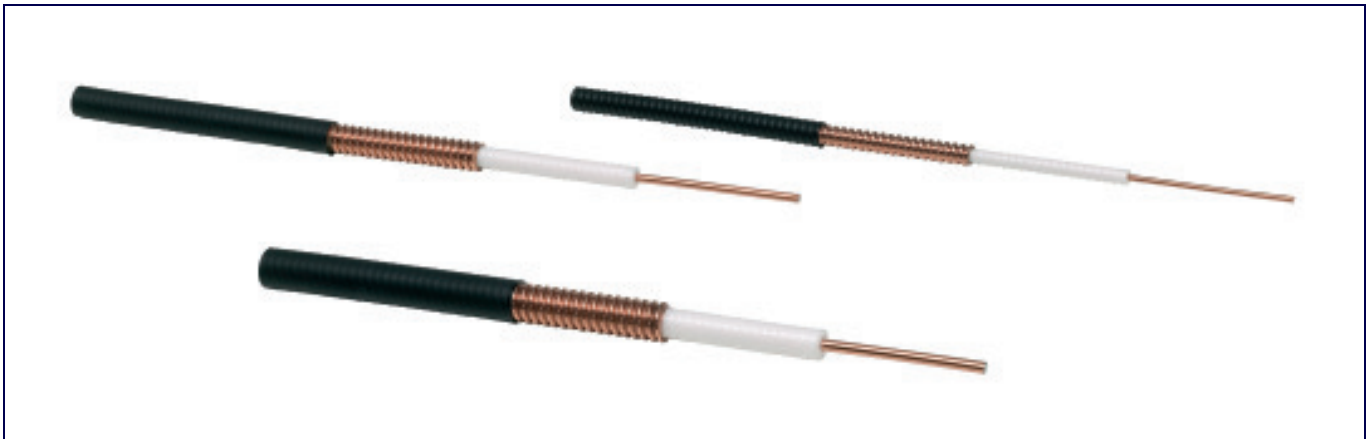
Rosenberger SLink™ Super Flexible Corrugated Cables

RosenbergerSLink™ super flexible corrugated cables are manufactured with deep spiral corrugation in the outer conductor and designed for applications which require smaller bending radius, high flexibility especially in shelters or plenum while outstanding mechanical and electrical performance are available.

These series super flexible cables covered by 1/4" S, 3/8" S, 1/2" S and 7/8" S and constructed with inner conductor, foam dielectric, outer conductor and protective jacket. With unique spiral corrugated process, RosenbergerSLink™ super flexible cables feature more flexible characteristic compare with flexible series cables. Rosenberger offers outer jacket with polyethylene or flame-retardant, halogen-free material according to client requirement.

R = ring corrugation

S = spiral corrugation



Super Flexible Corrugated Cables 1/4" S

Ordering Number	Remarks
SL 014S PE	Standard polyethylene jacket
SL 014S FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Copper clad alu wire	1.9 mm
Dielectric	Foamed PE	4.7 mm
Diameter over outer conductor	Spiral corrugated copper tube	6.4 mm
Diameter over outer jacket	PE / FRNC	7.7 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	70 kg/km
	FRNC	78 kg/km
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
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	2000 V
Relative velocity of propagation	83 %	Jacket spark, volts RMS	5000 V
Capacitance	80 pF/m	Inner conductor DC- resistance	9.8 Ω/km
Inductance	0.195 H/m	Outer conductor DC- resistance	6.6 Ω/km
Maximum operating frequency	20.4 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	25.0 GHz	Return loss 800 –1000 MHz	26 dB
Peak power rating	6.4 KW	Return loss 1700 – 2500 MHz	24 dB

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	5.95	8.36	10.3	12.4	13.1	17.5	18.5	19.6	26.9	28.5	30.2	32.5
Mean power [kW]	1.15	0.83	0.70	0.55	0.53	0.40	0.37	0.35	0.26	0.24	0.23	0.21

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Super Flexible Corrugated Cables 3/8" S

Ordering Number	Remarks
SL 038S PE	Standard polyethylene jacket
SL 038S FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Copper clad alu wire	2.6 mm
Dielectric	Foamed PE	6.7 mm
Diameter over outer conductor	Spiral corrugated copper tube	9.1 mm
Diameter over outer jacket	PE / FRNC	10.2 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	125 kg/km
	FRNC	130 kg/km
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
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	2500 V
Relative velocity of propagation	82 %	Jacket spark, volts RMS	5000 V
Capacitance	81 pF/m	Inner conductor DC- resistance	5.3 Ω/km
Inductance	0.195 H/m	Outer conductor DC- resistance	4.4 Ω/km
Maximum operating frequency	13.4 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	16.1 GHz	Return loss 800 –1000 MHz	26 dB
Peak power rating	11.9 KW	Return loss 1700 – 2500 MHz	24 dB

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	4.16	5.96	7.39	8.61	9.18	12.5	13.3	14.2	19.5	20.7	21.8	23.5
Mean power [kW]	1.92	1.34	1.08	0.93	0.87	0.64	0.60	0.56	0.41	0.39	0.37	0.34

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Super Flexible Corrugated Cables 1/2" S

Ordering Number	Remarks
SL 012S PE	Standard polyethylene jacket
SL 012S FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Copper clad alu wire	3.6 mm
Dielectric	Foamed PE	9.0 mm
Diameter over outer conductor	Spiral corrugated copper tube	12.2 mm
Diameter over outer jacket	PE / FRNC	13.6 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	171 kg/km
	FRNC	184 kg/km
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
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	2500 V
Relative velocity of propagation	83 %	Jacket spark, volts RMS	5000 V
Capacitance	80 pF/m	Inner conductor DC- resistance	2.69 Ω/km
Inductance	0.195 H/m	Outer conductor DC- resistance	3.54 Ω/km
Maximum operating frequency	10.2 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	13.0 GHz	Return loss 800 –1000 MHz	26 dB
Peak power rating	16 kW	Return loss 1700 – 2500 MHz	24 dB

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	3.31	4.84	6.07	7.11	7.59	10.4	11.2	11.8	16.0	17.2	18.2	19.6
Mean power [kW]	3.16	2.17	1.71	1.47	1.38	1.01	0.95	0.89	0.63	0.60	0.56	0.52

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Super Flexible Corrugated Cables 7/8" S

Ordering Number	Remarks
SL 078S PE	Standard polyethylene jacket
SL 078S FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Spiral corrugated copper tube	9.4 mm
Dielectric	Foamed PE	22.8 mm
Diameter over outer conductor	Spiral corrugated copper tube	24.9 mm
Diameter over outer jacket	PE / FRNC	27.5 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	≈ 470 kg/km
	FRNC	≈ 527 kg/km
Tensile strength		1100 N
Min. bending radius, single		80 mm
Min. bending radius, repeated		125 mm
Number of bends, minimum (typical)		15 (50)
Bending moment		13.0 Nm
Flat plate crush strength		14.3 N/mm
Recommended hanger spacing		1.0 m
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	6000 V
Relative velocity of propagation	88 %	Jacket spark, volts RMS	8000 V
Capacitance	76 pF/m	Inner conductor DC- resistance	2.91 Ω/km
Inductance	0.195 H/m	Outer conductor DC- resistance	1.21 Ω/km
Maximum operating frequency	4.6 Ghz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	4.8 Ghz		
Peak power rating	90 KW		

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	1.29	1.85	2.29	2.67	2.85	3.91	4.15	4.43	6.18	6.56	6.94	7.35
Mean power [kW]	6.58	4.58	3.71	3.18	2.99	2.18	2.05	1.92	1.38	1.30	1.22	1.12

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Rosenberger SLink™ Low Loss Corrugated Cables

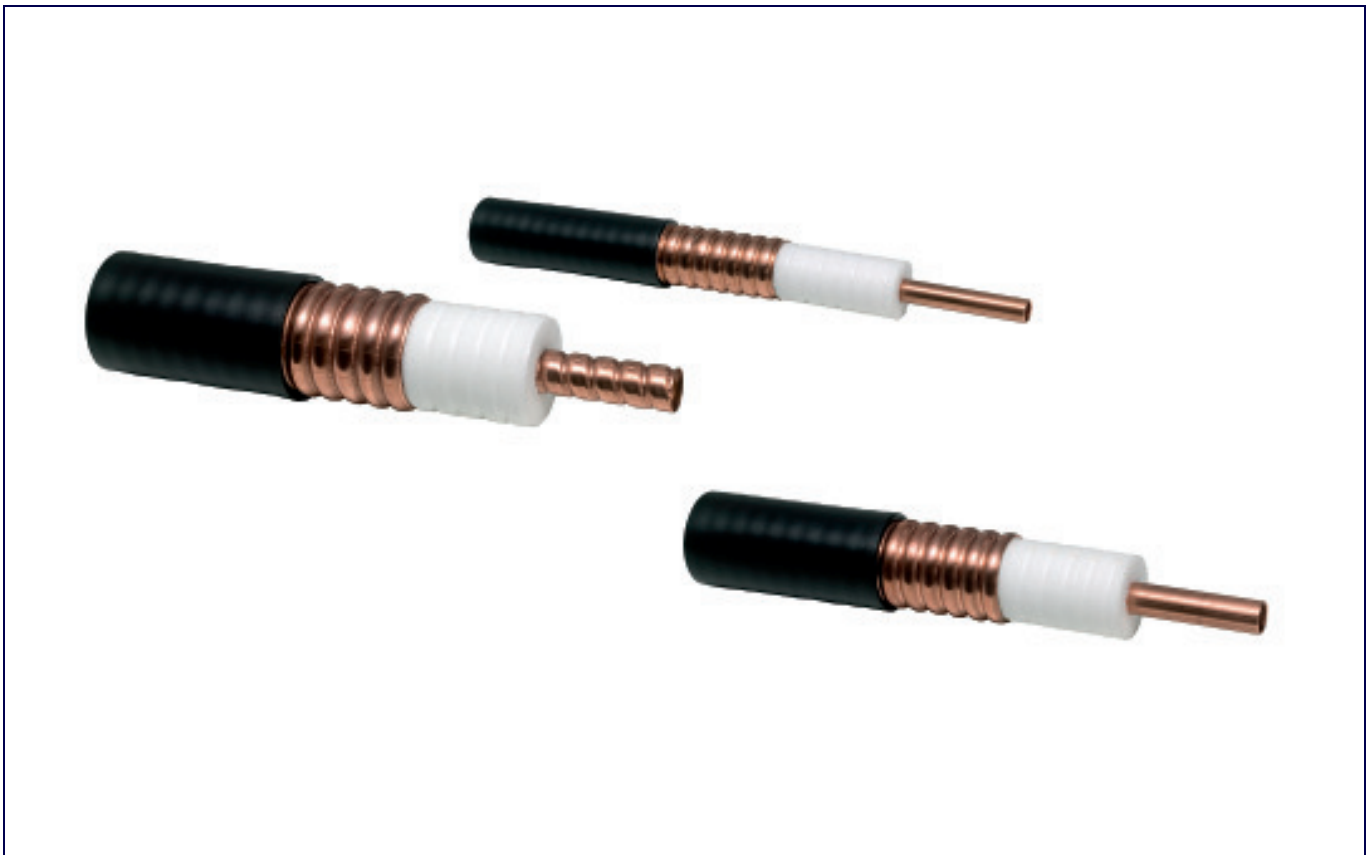
Low loss corrugated cables from Rosenberger are new- designed low attenuation RF coaxial cables.

With Rosenberger low loss corrugated cables, system designers and operators can cut cable subsystem costs by up to 30 % and gain cable height at the same time. Engineers can now meet system link using Rosenberger RF coaxial cables in certain taller tower applications, instead of cables which would have been required before.

With worldwide manufacturing experience, Rosenberger RF coaxial cables can be at your site quickly via our global distribution network. Designed and engineered with both your link and cost budgets in advance, Rosenberger RF coaxial cables continue provide the long-time outstanding quality and excellence performance that delivered to the communication industry application for decades.

R = ring corrugation

S = spiral corrugation



Low Loss Corrugated Cables 7/8" R L

Ordering Number	Remarks
SL 078R L PE	Standard polyethylene jacket
SL 078R L FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Copper tube	9.95 mm
Dielectric	Foamed PE	22.4 mm
Diameter over outer conductor	Ring corrugated copper tube	25.4 mm
Diameter over outer jacket	PE / FRNC	27.5 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	510 kg/km
	FRNC	567 kg/km
Tensile strength		1450 N
Min. bending radius, single		120 mm
Min. bending radius, repeated		250 mm
Number of bends, minimum (typical)		15 (50)
Bending moment		19 Nm
Flat plate crush strength		13 N/mm
Recommended hanger spacing		1.0 m
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	10000 V
Relative velocity of propagation	89 %	Jacket spark, volts RMS	8000 V
Capacitance	74 pF/m	Inner conductor DC- resistance	1.25 Ω/km
Inductance	0.195 H/m	Outer conductor DC- resistance	1.17 Ω/km
Maximum operating frequency	5.0 Ghz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	5.2 Ghz	Return loss 800 –1000 MHz	26 dB
Peak power rating	95 KW	Return loss 1700 – 2500 MHz	24 dB

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	1.11	1.60	1.99	2.31	2.49	3.45	3.61	3.84	5.35	5.62	6.01	6.48
Mean power [kW]	9.3	6.4	4.82	4.16	3.81	2.75	2.62	2.49	1.79	1.70	1.60	1.48

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Low Loss Corrugated Cables 1 1/4" R L

Ordering Number	Remarks
SL 114R L PE	Standard polyethylene jacket
SL 114R L FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Copper tube	13.1 mm
Dielectric	Foamed PE	32.2 mm
Diameter over outer conductor	Ring corrugated copper tube	35.8 mm
Diameter over outer jacket	PE / FRNC	39.0 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	980 kg/km
	FRNC	1117 kg/km
Tensile strength		2500 N
Min. bending radius, single		200 mm
Min. bending radius, repeated		380 mm
Number of bends, minimum (typical)		15 (50)
Bending moment		50 Nm
Flat plate crush strength		20 N/mm
Recommended hanger spacing		1.2 m
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	4600 V
Relative velocity of propagation	88 %	Jacket spark, volts RMS	10000 V
Capacitance	74 pF/m	Inner conductor DC- resistance	0.74 Ω/km
Inductance	0.190 H/m	Outer conductor DC- resistance	0.65 Ω/km
Maximum operating frequency	3.5 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	3.7 GHz	Return loss 800 –1000 MHz	24 dB
Peak power rating	200 KW	Return loss 1700 – 2500 MHz	24 dB

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	0.82	1.19	1.49	1.74	1.83	2.53	2.71	2.87	4.06	4.33	4.58	4.99
Mean power [kW]	13.4	9.31	7.17	6.03	5.5	3.90	3.70	3.50	2.40	2.30	2.20	2.03

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Low Loss Corrugated Cables 1 5/8" R L

Ordering Number	Remarks
SL 158R L PE	Standard polyethylene jacket
SL 158R L FRNC	Flame retardant, non- corrosive jacket



Mechanical Data		
Inner conductor	Spiral corrugated copper tube	17.6 mm
Dielectric	Foamed PE	41.0 mm
Diameter over outer conductor	Ring corrugated copper tube	46.5 mm
Diameter over outer jacket	PE / FRNC	49.8 mm
UV resistant and halogen free	PE / FRNC	
Cable weight	PE	1055 kg/km
	FRNC	1219 kg/km
Tensile strength		3500 N
Min. bending radius, single		300 mm
Min. bending radius, repeated		510 mm
Number of bends, minimum (typical)		15 (50)
Bending moment		68 Nm
Flat plate crush strength		20 N/mm
Recommended hanger spacing		1.2 m
Permissible temperature range, installation		- 40 °C to + 60 °C
Permissible temperature range, operation		- 55 °C to + 85 °C

Electrical Data			
Impedance	50 ±1 Ω	DC breakdown voltage	15000 V
Relative velocity of propagation	90 %	Jacket spark, volts RMS	10000 V
Capacitance	74 pF/m	Inner conductor DC- resistance	1.25 Ω/km
Inductance	0.190 H/m	Outer conductor DC- resistance	0.65 Ω/km
Maximum operating frequency	2.7 GHz	Insulation resistance	≥ 10 GΩ/km
Cut off frequency	2.9 GHz	Return loss 800 –1000 MHz	23 dB
Peak power rating	310 KW	Return loss 1700 – 2500 MHz	23 dB

Attenuation value and power rating

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	0.66	0.96	1.21	1.41	1.51	2.09	2.24	2.35	3.38	3.57	3.82	4.11
Mean power [kW]	14.5	10.1	7.9	6.88	6.29	4.54	4.24	4.05	2.82	2.68	2.52	2.34

- Attenuation, ambient temperature: 20°C
- Average power, ambient temperature: 40°C
- Average power, inner conductor temperature: 100°C
- Maximum attenuation value shall be 105% of the nominal attenuation value
- Other frequencies on request

Rosenberger SLink™ Connectors



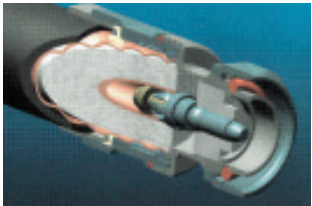
Rosenberger offers a complete range RosenbergerSLink™ connectors covered N and 7/16 DIN series which are used for a variety of RosenbergerSLink™ cables from 1/4" to 1 5/8".

As a result, a bespoke connection solution for mobile radio station is possible. RosenbergerSLink™ connectors are extremely robust, waterproof coaxial connectors with outstanding electrical, mechanical and climatic characteristics.

The product range covers straight and right angle connectors for various types of RosenbergerSLink™ cables from 1/4" to 1 5/8".



Overview

Type	Sealing Design	
JacSeal+	The sealing against water and moisture is performed at the jacket of the cable. The interface is sealed additionally.	
JacSeal	The sealing against water and moisture is performed at the jacket of the cable.	
CorSeal	The sealing against water and moisture is performed at the corrugation of the cable.	

The connectors are available in different sealing designs as JacSeal+, JacSeal and CorSeal Types.

Technical Data

	N Series	7/16 Series
Nominal impedance	50 Ω	50 Ω
Frequency range	DC - 11 GHz	DC - 8.3 GHz
Insertion loss	0.1 dB	0.05 dB
Intermodulation	- 158 dBc @ 2 x 20 W	- 158 dBc @ 2 x 20 W
RF- Leakage	< - 128 dB @ 1 GHz	< - 128 dB @ 1 GHz
Operation temperature	- 45 °C to +85 °C	- 45 °C to +85 °C
Protection	IP 68	IP 68
Plating outer contact	White bronze	White bronze
Plating center contact	Ag	Ag

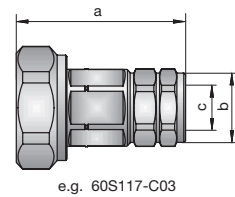
JacSeal+ Connectors

Series 7- 16

Straight Plug

JacSeal+

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
60 S 117- C03 N1	Ring	a = 48; b \varnothing = 20; c \varnothing = 16.5	1/2" R	60 I37	1
60 S 117- C08 N1	Spiral	a = 50; b \varnothing = 20; c \varnothing = 14	1/2" S	60 I38	1
60 S 117- C05 N1	Ring	a = 44; b \varnothing = 36; c \varnothing = 28.3	7/8" R	60 I36	1
60 S 117- C06 N1	Ring	a = 71.9; b \varnothing = 47; c \varnothing = 39.9	1 1/4" R	60 I41	1
60 S 117- C07 N1	Ring	a = 83; b \varnothing = 58; c \varnothing = 50.6	1 5/8" R	60 I42	1

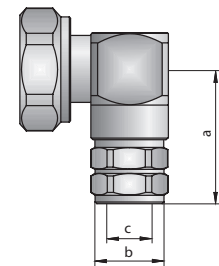


e.g. 60S117-C03

Right Angle Plug

JacSeal+

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
60 S 217- C03 N1	Spiral	a = 33.8; b \varnothing = 20; c \varnothing = 16.5	1/2" S	60 I37	1
60 S 217- C08 N1	Spiral	a = 37.2; b \varnothing = 20; c \varnothing = 14	1/2" S	60 I38	1

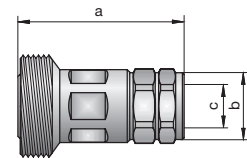


e.g. 60S217-C03

Straight Jack

JacSeal+

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
60 K 117- C03 N1	Ring	a = 50; b \varnothing = 20; c \varnothing = 16.5	1/2" R	60 I37	1
60 K 117- C08 N1	Spiral	a = 52; b \varnothing = 20; c \varnothing = 14	1/2" S	60 I38	1
60 K 117- C05 N1	Ring	a = 40.7; b \varnothing = 36; c \varnothing = 28.3	7/8" R	60 I36	1
60 K 117- C06 N1	Ring	a = 71.75; b \varnothing = 47; c \varnothing = 39.9	1 1/4" R	60 I41	1
60 K 117- C07 N1	Ring	a = 82.4; b \varnothing = 58; c \varnothing = 50.6	1 5/8" R	60 I42	1



e.g. 60K117-C03

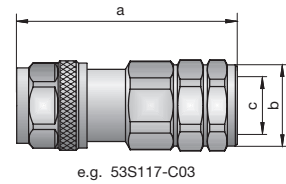
JacSeal+ Connectors

Series N

Straight Plug

JacSeal+

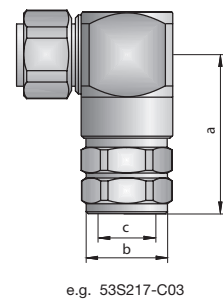
Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
53 S 117- C03 N1	Ring	a = 54; b Ø= 20; c Ø= 16.5	1/2" R	60 I37	1
53 S 117- C08 N1	Spiral	a = 55; b Ø= 20; c Ø= 14	1/2" S	60 I38	1
53 S 117- C05 N1	Ring	a = 50; b Ø= 36; c Ø= 28.3	7/8" R	60 I36	1
53 S 117- C06 N1	Ring	a = 81.3; b Ø= 47; c Ø= 39.9	1 1/4" R	60 I41	1
53 S 117- C07 N1	Ring	a = 92; b Ø= 58; c Ø= 50.6	1 5/8" R	60 I42	1



Right Angle Plug

JacSeal+

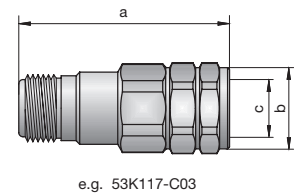
Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
53 S 217- C03 N1	Spiral	a = 33.8; b Ø= 20; c Ø= 16.5	1/2" S	60 I37	1
53 S 217- C08 N1	Spiral	a = 37.2; b Ø= 20; c Ø= 14	1/2" S	60 I38	1



Straight Jack

JacSeal+

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
53 K 117- C03 N1	Ring	a = 52; b Ø= 20; c Ø= 16.5	1/2" R	60 I37	1
53 K 117- C08 N1	Spiral	a = 53; b Ø= 20; c Ø= 14	1/2" S	60 I38	1
53 K 117- C05 N1	Ring	a = 43; b Ø= 36; c Ø= 28.3	7/8" R	60 I36	1
53 K 117- C06 N1	Ring	a = 75.1; b Ø= 47; c Ø= 39.9	1 1/4" R	60 I41	1
53 K 117- C07 N1	Ring	a = 85.8; b Ø= 58; c Ø= 50.6	1 5/8" R	60 I42	1



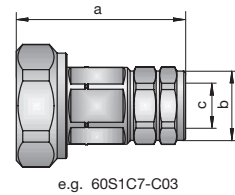
JacSeal Connectors

Series 7- 16

Straight Plug

JacSeal

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
60 S 1C7- C03 N1	Ring	a = 48.7; b \varnothing = 20; c \varnothing = 16.5	1/2" R	60 I37	1
60 S 1C7- C08 N1	Spiral	a = 52.7; b \varnothing = 20; c \varnothing = 14	1/2" S	61 I38	1
60 S 1C7- C05 N1	Ring	a = 44; b \varnothing = 36; c \varnothing = 28.3	7/8" R	60 I36	1
60 S 1C7- C06 N1	Ring	a = 69.7; b \varnothing = 44.3; c \varnothing = 39.6	1 1/4" R	60 I39	1
60 S 1C7- C07 N1	Ring	a = 78.2; b \varnothing = 55.8; c \varnothing = 50.6	1 5/8" R	60 I40	1

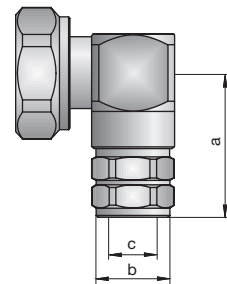


e.g. 60S1C7-C03

Right Angle Plug

JacSeal

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
60 S 2C7- C03 N1	Ring	a = 37.9; b \varnothing = 20; c \varnothing = 16.5	1/2" R	60 I37	1
60 S 2C7- C08 N1	Spiral	a = 36.95; b \varnothing = 20; c \varnothing = 14	1/2" S	61 I38	1

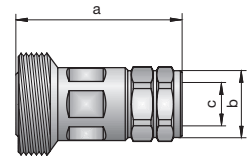


e.g. 60S2C7-C03

Straight Jack

JacSeal

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
60 K 1C7- C03 N1	Ring	a = 56.2; b \varnothing = 20; c \varnothing = 16.5	1/2" R	60 I37	1
60 K 1C7- C08 N1	Spiral	a = 51.5; b \varnothing = 20; c \varnothing = 14	1/2" S	61 I38	1
60 K 1C7- C05 N1	Ring	a = 40.7 b \varnothing = 36; c \varnothing = 28.3	7/8" R	60 I36	1
60 K 1C7- C06 N1	Ring	a = 70.5; b \varnothing = 44.3; c \varnothing = 39.6	1 1/4" R	60 I39	1
60 K 1C7- C07 N1	Ring	a = 75.7; b \varnothing = 55.8; c \varnothing = 50.6	1 5/8" R	60 I40	1



e.g. 60K1C7-C03

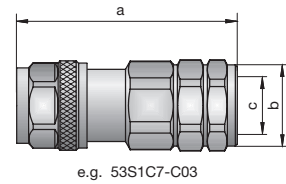
JacSeal Connectors

Series N

Straight Plug

JacSeal

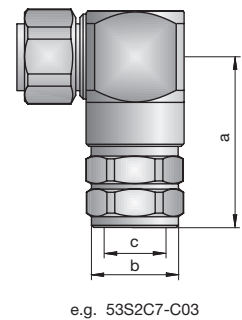
Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
53 S 1C7- C03 N1	Ring	a = 55.3; b Ø= 20; c Ø= 16.5	1/2" R	60 I37	1
53 S 1C7- C08 N1	Spiral	a = 55.3; b Ø= 20; c Ø= 14	1/2" S	61 I38	1
53 S 1C7- C05 N1	Ring	a = 50; b Ø= 36; c Ø= 28.3	7/8" R	60 I36	1
53 S 1C7- C06 N1	Ring	a = 75.6; b Ø= 44.3; c Ø= 39.6	1 1/4" R	60 I39	1
53 S 1C7- C07 N1	Ring	a = 85.1; b Ø= 55.8; c Ø= 50.6	1 5/8" R	60 I40	1



Right Angle Plug

JacSeal

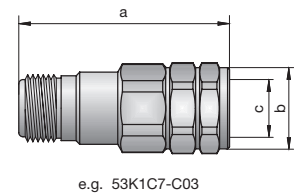
Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
53 S 2C7- C03 N1	Ring	a = 37.9; b Ø= 20; c Ø= 16.5	1/2" R	60 I37	1
53 S 2C7- C08 N1	Spiral	a = 36.95; b Ø= 20; c Ø= 14	1/2" S	61 I38	1



Straight Jack

JacSeal

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
53 K 1C7- C03 N1	Ring	a = 52.3; b Ø= 20; c Ø= 16.5	1/2" R	60 I37	1
53 K 1C7- C08 N1	Spiral	a = 53.3; b Ø= 20; c Ø= 14	1/2" S	61 I38	1
53 K 1C7- C05 N1	Ring	a = 43; b Ø= 36; c Ø= 28.3	7/8" R	60 I36	1
53 K 1C7- C06 N1	Ring	a = 69.5; b Ø= 44.3; c Ø= 39.6	1 1/4" R	60 I39	1
53 K 1C7- C07 N1	Ring	a = 79.1; b Ø= 55.8; c Ø= 50.6	1 5/8" R	60 I40	1



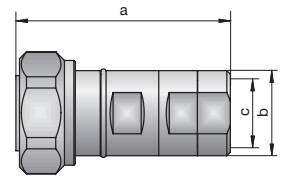
CorSeal Connectors

Series 7- 16

Straight Plug

CorSeal

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
60 S 115- C01 N1	Ring	a = 53.5; b \varnothing = 24; c \varnothing = 9.3	1/4" R	60 I30	1
60 S 115- C09 N1	Spiral	a = 53.5; b \varnothing = 20; c \varnothing = 8.5	1/4" S	60 I23	1
60 S 115- C02 N1	Spiral	a = 66; b \varnothing = 24; c \varnothing = 11	3/8" S	60 I28	1
60 S 115- C03 N1	Ring	a = 61; b \varnothing = 24; c \varnothing = 16.5	1/2" R	60 I18	1
60 S 115- C08 N1	Spiral	a = 65.1; b \varnothing = 24; c \varnothing = 14.2 II. Gen.	1/2" S	60 I35	1
60 S 115- C05 N1	Ring	a = 75; b \varnothing = 35; c \varnothing = 28.5	7/8" R	60 I25	1
60 S 115- C06 N1	Ring	a = 95; b \varnothing = 52; c \varnothing = 40	1 1/4" R	60 I26	1
60 S 115- C07 N1	Ring	a = 104; b \varnothing = 63; c \varnothing = 51.6	1 5/8" R	60 I29	1

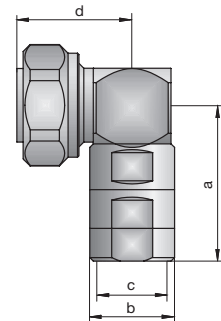


e.g. 60S115-C03

Right Angle Plug

CorSeal

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
60 S 215- C01 N1	Ring	a = 39; b \varnothing = 24; c \varnothing = 9.3; d \varnothing = 37	1/4" R	60 I30	1
60 S 215- C09 N1	Spiral	a = 37; b \varnothing = 20; c \varnothing = 8.5; d \varnothing = 31	1/4" S	60 I23	1
60 S 215- C02 N1	Spiral	a = 49.8; b \varnothing = 24; c \varnothing = 11; d \varnothing = 37.2	3/8" S	60 I28	1
60 S 215- C03 N1	Ring	a = 44.3; b \varnothing = 24; c \varnothing = 16.5; d \varnothing = 33	1/2" R	60 I18	1
60 S 215- C08 N1	Spiral	a = 48.9; b \varnothing = 24; c \varnothing = 14.2; d \varnothing = 36 II. Gen.	1/2" S	60 I35	1
60 S 215- C05 N1	Ring	a = 68; b \varnothing = 35; c \varnothing = 28.5; d \varnothing = 32.2	7/8" R	60 I25	1

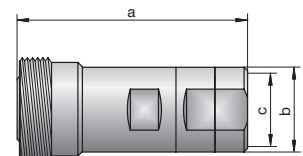


e.g. 60S215-C03

Straight Jack

CorSeal

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
60 K 115- C01 N1	Ring	a = 55.5; b \varnothing = 24; c \varnothing = 9.3	1/4" R	60 I30	1
60 K 115- C09 N1	Spiral	a = 55.1; b \varnothing = 20; c \varnothing = 8.5	1/4" S	60 I23	1
60 K 115- C02 N1	Spiral	a = 67; b \varnothing = 24; c \varnothing = 11	3/8" S	60 I28	1
60 K 115- C03 N1	Ring	a = 62.6; b \varnothing = 24; c \varnothing = 16.5	1/2" R	60 I18	1
60 K 115- C08 N1	Spiral	a = 65.1; b \varnothing = 24; c \varnothing = 14.2 II. Gen.	1/2" S	60 I35	1
60 K 115- C05 N1	Ring	a = 77; b \varnothing = 35; c \varnothing = 28.5	7/8" R	60 I25	1
60 K 115- C06 N1	Ring	a = 101; b \varnothing = 52; c \varnothing = 40	1 1/4" R	60 I26	1
60 K 115- C07 N1	Ring	a = 110; b \varnothing = 63; c \varnothing = 51.6	1 5/8" R	60 I29	1



e.g. 60K115-C03

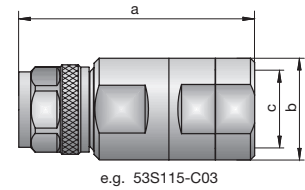
CorSeal Connectors

Series N

Straight Plug

CorSeal

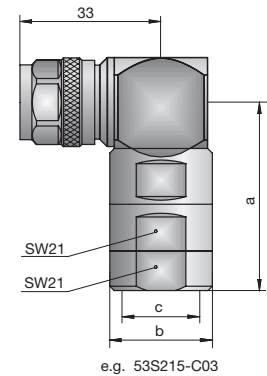
Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
53 S 115- C01 N1	Ring	a = 61; b \varnothing = 24; c \varnothing = 9.3	1/4" R	60 I30	1
53 S 115- C09 N1	Spiral	a = 52; b \varnothing = 20; c \varnothing = 8.5	1/4" S	60 I23	1
53 S 115- C02 N1	Spiral	a = 71.2; b \varnothing = 24; c \varnothing = 11	3/8" S	60 I28	1
53 S 115- C03 N1	Ring	a = 65; b \varnothing = 24; c \varnothing = 16.5	1/2" R	60 I18	1
53 S 115- C08 N1	Spiral	a = 70; b \varnothing = 24; c \varnothing = 14.2 II. Gen.	1/2" S	60 I35	1
53 S 115- C05 N1	Ring	a = 76.4; b \varnothing = 35; c \varnothing = 28.5	7/8" R	60 I25	1
53 S 115- C06 N1	Ring	a = 107; b \varnothing = 52; c \varnothing = 40	1 1/4" R	60 I26	1
53 S 115- C07 N1	Ring	a = 116; b \varnothing = 63; c \varnothing = 51.6	1 5/8" R	60 I29	1



Right Angle Plug

CorSeal

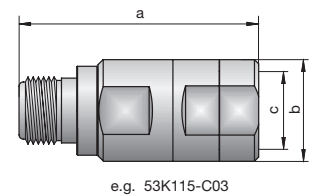
Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
53 S 215- C01 N1	Ring	a = 39.5; b \varnothing = 24; c \varnothing = 9.3	1/4" R	60 I30	1
53 S 215- C09 N1	Spiral	a = 36.8; b \varnothing = 20; c \varnothing = 8.5	1/4" S	60 I23	1
53 S 215- C02 N1	Spiral	a = 50.1; b \varnothing = 24; c \varnothing = 11	3/8" S	60 I28	1
53 S 215- C03 N1	Ring	a = 44.5; b \varnothing = 24; c \varnothing = 16.5	1/2" R	60 I18	1
53 S 215- C08 N1	Spiral	a = 47; b \varnothing = 24; c \varnothing = 14.2 II. Gen.	1/2" S	60 I35	1



Straight Jack

CorSeal

Ordering Number	Version	Remarks	Cable Type	Assembly Instruction	Packing Unit
53 K 115- C01 N1	Ring	a = 61; b \varnothing = 24; c \varnothing = 9.3	1/4" R	60 I30	1
53 K 115- C09 N1	Spiral	a = 52; b \varnothing = 20; c \varnothing = 8.5	1/4" S	60 I23	1
53 K 115- C02 N1	Spiral	a = 71; b \varnothing = 24; c \varnothing = 11	3/8" S	60 I28	1
53 K 115- C03 N1	Ring	a = 64.8; b \varnothing = 24; c \varnothing = 16.5	1/2" R	60 I18	1
53 K 115- C08 N1	Spiral	a = 70.4; b \varnothing = 24; c \varnothing = 14.2 II. Gen.	1/2" S	60 I35	1
53 K 115- C05 N1	Ring	a = 74.3; b \varnothing = 35; c \varnothing = 28.5	7/8" R	60 I25	1
53 K 115- C06 N1	Ring	a = 106; b \varnothing = 52; c \varnothing = 40	1 1/4" R	60 I26	1
53 K 115- C07 N1	Ring	a = 115; b \varnothing = 63; c \varnothing = 51.6	1 5/8" R	60 I29	1



Rosenberger SLink™ Tools

The RosenbergerSLink™ product spectrum includes a wide range of tools - flaring tools, cutting tools, cutting gauges, hook spanners and cable strippers. Cable Strippers are ideal for fast and easy use and enable reliable preparation of the connector assemblies on the antennas.

RosenbergerSLink™ tools are available for CorSeal, JacSeal and JacSeal+ connectors and for the complete cable range from 1/4" to 1 5/8", ring and spiral corrugation.



Stripping Tool

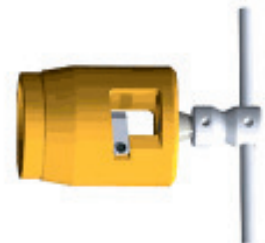
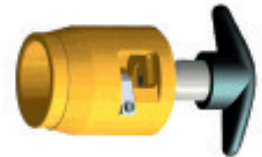
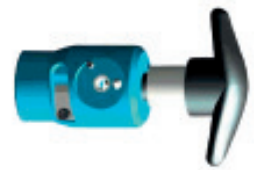
Cable Stripper: CorSeal Connectors

Ordering Number	Remarks	Cable	Packing Unit
60 W 010- C01	for CorSeal connectors	1/4"R	1
60 W 010- C09	for CorSeal connectors	1/4"S	1
60 W 010- C02	for CorSeal connectors	3/8"S	1
60 W 010- C03	for CorSeal connectors	1/2"R	1
60 W 010- C08	for CorSeal connectors	1/2"S	1
60 W 010- C05	for CorSeal connectors	7/8"R	1
60 W 010- C06	for CorSeal connectors	1 1/4"R	1
60 W 010- C07	for CorSeal connectors	1 5/8"R	1



Cable Stripper: JacSeal & JacSeal+ Connectors

Ordering Number	Remarks	Cable	Packing Unit
60 W 110- C03	for JacSeal and JacSeal+ connectors	1/2"R	1
60 W 110- C08	for JacSeal and JacSeal+ connectors	1/2"S	1
60 W 110- C06	for JacSeal and JacSeal+ connectors	1 1/4"R	1
60 W 110- C07	for JacSeal and JacSeal+ connectors	1 5/8"R	1



Flaring Tool




Flaring Tool

Ordering Number	Remarks	Cable	Packing Unit
60 W 009- C0X		1/4"R, 1/2"R	1
60 W 009- C05		7/8"R	1
60 W 109- C06		1 1/4"R	1
60 W 109- C07		1 5/8"R	1
60 Z B01- C05		7/8"R	1
60 Z B01- C06		1 1/4"R	1
60 Z B01- C07		1 5/8"R	1



Cutting Tool

Cutting Tool

Ordering Number	Remarks	Cable	Packing Unit	
60 W 107- C03	for CorSeal connectors flaring tool included	1/2"R	1	
60 W 007- C05	for CorSeal connectors flaring tool included	7/8"R	1	
60 W 107- C05	for JacSeal and JacSeal+ connectors flaring tool included	7/8"R	1	

Spare Blade

Spare Blade

Ordering Number	Remarks	Packing Unit
60 W 005- C08/08	large No 51, for 60 W 007- C05 and 60 W 107- C05	1 (=10 pcs)
60 W 005- C05/30	small No 78, for 60 W 007- C05 and 60 W 107- C05	1 (=10 pcs)

Cutting Gauge

Cutting Gauge

Ordering Number	Remarks	Cable	Packing Unit
60 W 008- C06	for CorSeal connectors	1 1/4"R	1
60 W 008- C07	for CorSeal connectors	1 5/8"R	1
60 W 108- C06	for JacSeal and JacSeal+ connectors	1 1/4"R	1
60 W 108- C07	for JacSeal and JacSeal+ connectors	1 5/8"R	1
60 Z A01- C05		7/8"R	1
60 Z A01- C06		1 1/4"R	1
60 Z A01- C07		1 5/8"R	1



Hook Spanner

Hook Spanner

Ordering Number	Remarks	Cable	Packing Unit
60 W 007- C06	for CorSeal connectors	1 1/4"R	1
60 W 107- C06	for JacSeal+ connectors	1 1/4"R	1
60 W 007- C07	for CorSeal and JacSeal+ connectors	1 5/8"R	1



Rosenberger SLink™ Jumper Cables

RosenbergerSLink™ jumpers are commonly used for the connection of the RF cable lines with the antenna or with the radios.

RosenbergerSLink™ jumpers are ideal for daily use even under difficult conditions and featured by the following characteristics:

- Long trouble- free field life as a result of tried and tested materials and production technologies
- Designed for outdoor applications under extreme climatic conditions (longitudinal waterproofing)
- High flexibility and small bending diameters
- Specially developed connectors using soldering technology, that guarantees superior electrical characteristics
- Screening attenuation > 120 dB
- Low intermodulation product IM3 > 160 dBc
- Excellent return loss due to silver- plated connectors and attenuation- optimized cable materials
- Integrated lighting protection technology saves setup time, that is site- optimized and reduces system attenuation
- Hot- polyamide moulding between connector and cable jacket
- Waterproof to safety class IP68
- Used cable jacket of flame retardant, halogen- free material (FRNC optional)



Technical Specification

Electrical Data	1/4"S	3/8"S	1/2"S	1/2"R
Frequency range	DC to 2200 MHz			
Peak power rating	6.4 KW	11.9 KW	16.0 KW	40.0 KW
Nominal impedance	50 Ω			
Return loss 30 – 1000 MHz	> 28 dB			
Return loss 1000 – 2200 MHz	> 26 dB			
Insertion loss 900 MHz	≤ 0.18 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.13 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.112 dB (cable) + 0.10 dB (2 connectors)	≤ 0.07 dBm (cable) + 0.10 dB (2 connectors)
Insertion loss 1800 MHz	≤ 0.26 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.20 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.16 dB (cable) + 0.10 dB (2 connectors)	≤ 0.10 dBm (cable) + 0.10 dB (2 connectors)
Insertion loss 2200 MHz	≤ 0.30 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.22 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.182 dB (cable) + 0.10 dB (2 connectors)	≤ 0.11 dBm (cable) + 0.10 dB (2 connectors)
Intermodulation at 900 MHz, 1800 MHz, 2200 MHz	> 160 dBc (3rd order product with 2x 43 dBm)			

Mechanical Data	1/4"S	3/8"S	1/2"S	1/2"R
Bending diameter repeated bending	> 50 mm		> 70 mm	
Bending diameter single bending	> 25 mm		> 50 mm	> 140 mm
Tensile strength	max. 600 N		max. 750 N	max. 1150 N

Environmental Data	1/4"S	3/8"S	1/2"S	1/2"R
Waterproof to safety class (IEC 529)	IP 68			
Max operating temperature range	– 40 °C to + 80 °C			
Installation temperature range	– 15 °C to + 60 °C			
Mechanical oscillation	MIL STD 202 Meth. 204/B			
Shock resistance	MIL STD 202 Meth. 213/B			
Corrosion resistance	MIL STD 202 Meth. 101			

Materials	1/4"S	3/8"S	1/2"S	1/2"R
Cable inner conductor	copper clad, aluminium wire			
Cable dielectric	highly foamed polyethylene			
Cable outer conductor	spiral corrugated copper tube			annular corrugated copper tube
Cable jacket options	FRNC, black and PE black			
Connector inner conductor	brass / CuBe, silver-plated			
Connector outer conductor	brass, silver-plated			
Insulator	PTFE			
Sealing	hot- polyamide moulding			

Customized jumper cables available on request

Rosenberger SLink™ Surge Arresters

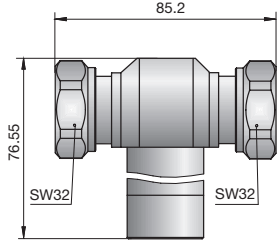
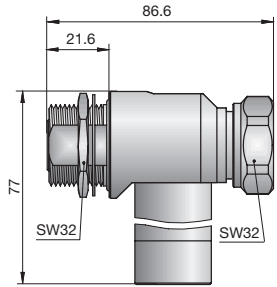
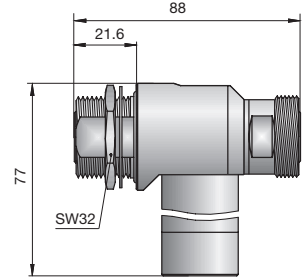
Lightning protection components are essential for protecting high- cost radio base stations against over voltages. Coaxial surge arresters from Rosenberger – integrated directly into the cabling system from the antenna down to the base station – safeguard the system and provide reliable deflection in case of over voltages, e. g. by lightning strikes.

Effective lightning protection systems deflect over voltages, causing surge currents of 20 kA, resulting in a residual output voltage of only 100 V. Rosenberger offers coaxial surge arresters with N and 7- 16 interfaces, for "non- directed" mounting, with and without gas discharge tubes.

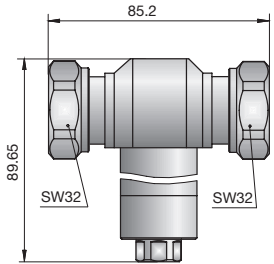
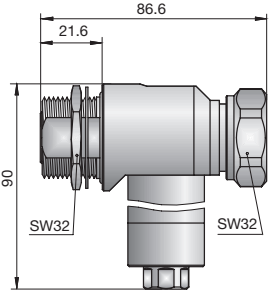
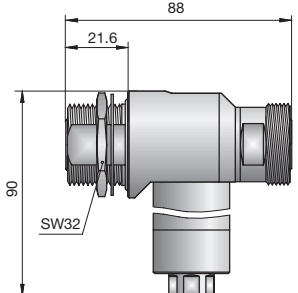
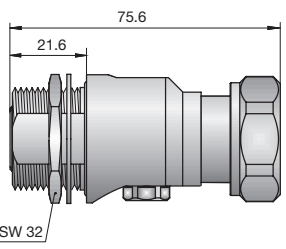
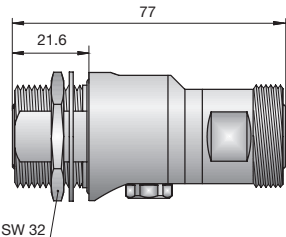


Series 7- 16

Wideband Surge Arresters

Ordering Number	Version	Remarks	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit	
60 HS 161- S00 N1	male - male	800- 2500 MHz grounded center contact			1	 <p>reduced scale</p>
60 HK 561- S00 N1	female - male	800- 2500 MHz grounded center contact	60 X02	B 75	1	 <p>reduced scale</p>
60 HK 561- K00 N1	female - female	800- 2500 MHz grounded center contact	60 X02	B 75	1	 <p>reduced scale</p>

Wideband Surge Arresters - Gas filled

Ordering Number	Version	Remarks	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit	
60 BS 161- S00 N1	male - male	800- 2500 MHz discharge tube 90 V included			1	 <p>reduced scale</p>
60 BK 561- S00 N1	female - male	800- 2500 MHz discharge tube 90 V included	60 X02	B 75	1	 <p>reduced scale</p>
60 BK 561- K00 N1	female - female	800- 2500 MHz discharge tube 90 V included	60 X02	B 75	1	 <p>reduced scale</p>
60 BK 531- S00 N1	female - male	DC- 2200 MHz discharge tube 350 V included	60 X02	B 75	1	 <p>reduced scale</p>
60 BK 531- K00 N1	female - female	DC- 2200 MHz discharge tube 350 V included	60 X02	B 75	1	 <p>reduced scale</p>

Series N

Wideband Surge Arresters

Ordering Number	Version	Remarks	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit	
53 HS 161- S00 N1	male - male	800- 2500 MHz			1	<p>88.3 76.45 reduced scale</p>
53 HK 561- S00 N1	female - male	800- 2500 MHz	60 X02	B 13	1	<p>91.55 76.45 SW19 reduced scale</p>
53 HK 561- K00 N1	female - female	800- 2500 MHz	60 X02	B 13	1	<p>88 76.45 SW19 reduced scale</p>
53 HS 501- K00 N1	male - female	800- 2500 MHz Grounded center contact		B 13	1	<p>99.8 42 SW 19 reduced scale</p>
53 HK 501- K00 N1	female - female	800- 2500 MHz Grounded center contact		B 13	1	<p>96.6 42 SW 19 reduced scale</p>
53 HK 502- S00 N1	female - male	2400- 5800 MHz for WiMAX and WLAN- applications		B 13	1	<p>62.55 39.6 SW19 reduced scale</p>

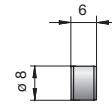
Wideband Surge Arresters - Gas filled

Ordering Number	Version	Remarks	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit	
53 BS 161- S00 N1	male - male	DC 800- 2500 MHz discharge tube 90 V included			1	
53 BK 561- S00 N1	female - male	DC 800- 2500 MHz discharge tube 90 V included	60 X02	B 13	1	
53 BK 561- K00 N1	female - female	DC 800- 2500 MHz discharge tube 90 V included	60 X02	B 13	1	
53 BK 501- S00 N1	female - male	DC- 2500 MHz discharge tube not included	53MV- A001	B 13	1	
53 BK 501- K00 N1	female - female	DC- 2500 MHz discharge tube not included	53MV- A001	B 13	1	

Gas Discharge Tubes for 7- 16 and N Series

Gas Discharge Tube

Ordering Number	Remarks	Packing Unit
53 Z B01- 090	Norm. sparkover voltage 90 V	1
53 Z B01- 230	Norm. sparkover voltage 230 V	1
53 Z B01- 350	Norm. sparkover voltage 350 V	1



Rosenberger SLink™ Adaptors, Terminations, Attenuators

For site solution applications, adaptors, terminations and attenuators are available in N and 7- 16 series. The product range includes:

Adaptors, straight and right angle adaptors

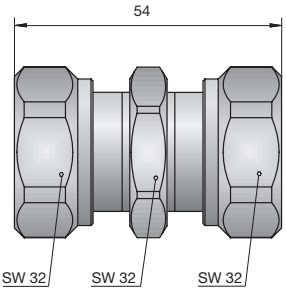
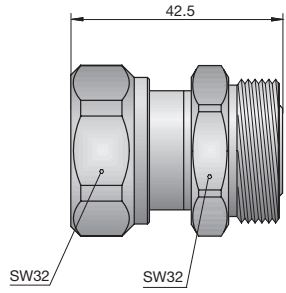
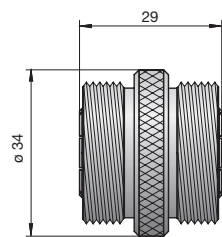
Terminations, male and female, 1 and 20 W

Attenuators, 5 and 20 W power rating, from 3 dB to 20 dB attenuation

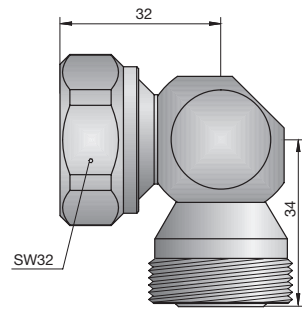


Adaptors Series 7- 16

Straight Adaptor

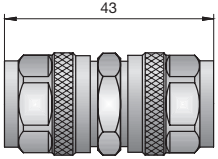
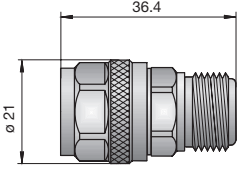
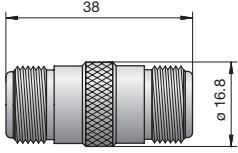
Ordering Number	Version	Remarks	Packing Unit	
60 S 101- S50 N1	straight	7- 16 male - male	1	
60 S 101- K50 N1	straight	7- 16 male - female	1	
60 K 101- K50 N1	straight	7- 16 female - female	1	

Right Angle Adaptor

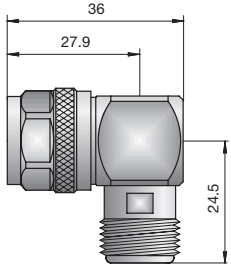
Ordering Number	Version	Remarks	Packing Unit	
60 S 231- K00 N1	right angle	7- 16 male - female	1	

Adaptors Series N

Straight Adaptor

Ordering Number	Version	Remarks	Packing Unit	
53 S 101- S00 N5	straight	N male - male	1	
53 S 101- K00 N5	straight	N male - female	1	
53 K 101- K00 N5	straight	N female - female	1	

Right Angle Adaptor

Ordering Number	Version	Remarks	Packing Unit	
53 S 201- K00 N5	right angle	N male - female	1	

Terminations Series 7- 16

Termination 7- 16 male

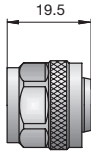
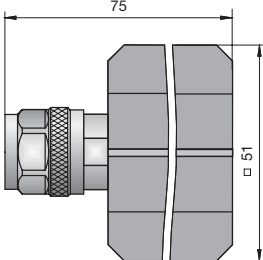
Ordering Number	Remarks	Return Loss	Packing Unit	
60 S 17R- 001 N1	1 Watt; Frequency DC - 8 GHz	≥ 34.1 dB @ DC to 2 GHz ≥ 20 dB @ 2 GHz to 8 GHz	1	
60 S 17R- 020 N1	20 Watt; Frequency DC - 8 GHz	≥ 34.1 dB @ DC to 1 GHz ≥ 30.7 dB @ 1 GHz to 2 GHz ≥ 20 dB @ 2 GHz to 8 GHz	1	

Termination 7- 16 female

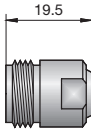
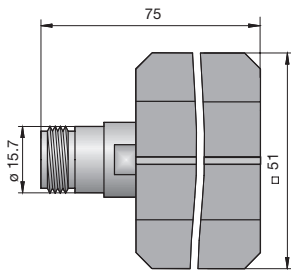
Ordering Number	Remarks	Return Loss	Packing Unit	
60 K 17R- 001 N1	1 Watt; Frequency DC - 8 GHz	≥ 34.1 dB @ DC to 2 GHz ≥ 20 dB @ 2 GHz to 8 GHz	1	
60 K 17R- 020 N1	20 Watt; Frequency DC - 8 GHz	≥ 34.1 dB @ DC to 1 GHz ≥ 30.7 dB @ 1 GHz to 2 GHz ≥ 20 dB @ 2 GHz to 8 GHz	1	

Terminations Series N

Termination N male

Ordering Number	Remarks	Return Loss	Packing Unit	
53 S 1RR-001 N3	1 Watt; Frequency DC - 4 GHz	≥ 28.3 dB @ DC to 1 GHz ≥ 20.8 dB @ 1 GHz to 2.5 GHz ≥ 17.7 dB @ 2.5 GHz to 12.4 GHz	1	
53 S 15R-020 N3	20 Watt; Frequency DC - 3 GHz	≥ 20.8 dB @ DC to 3 GHz	1	

Termination N female

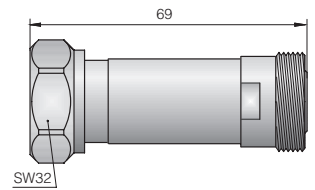
Ordering Number	Remarks	Return Loss	Packing Unit	
53 K 1RR-001 N3	1 Watt; Frequency DC - 4 GHz	≥ 23.1 dB @ DC to 4 GHz	1	
53 K 15R-020 N3	20 Watt; Frequency DC - 3 GHz	≥ 20.8 dB @ DC to 3 GHz	1	

Attenuators Series 7- 16

Attenuators male- female

5 Watt

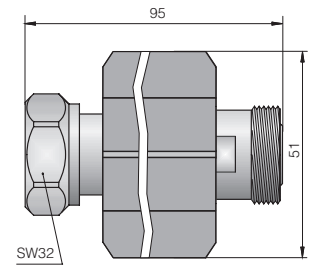
Ordering Number	Return Loss	Attenuation	Tolerance	Power Handling
60 AS 105- K03 N1	≥ 30.7 dB @ DC to 1 GHz ≥ 26.4 dB @ 1 GHz to 2 GHz ≥ 20.0 dB @ 2 GHz to 8 GHz	3 dB	±0.3 dB @ 2 GHz ±0.4 dB @ 4 GHz ±0.8 dB @ 8 GHz	5 W @ 25° C to 0 W @ 125°C
60 AS 105- K06 N1	≥ 30.7 dB @ DC to 1 GHz ≥ 26.4 dB @ 1 GHz to 2 GHz ≥ 20.0 dB @ 2 GHz to 8 GHz	6 dB	±0.3 dB @ 2 GHz ±0.4 dB @ 4 GHz ±0.8 dB @ 8 GHz	5 W @ 25° C to 0 W @ 125°C
60 AS 105- K10 N1	≥ 30.7 dB @ DC to 1 GHz ≥ 26.4 dB @ 1 GHz to 2 GHz ≥ 20.0 dB @ 2 GHz to 8 GHz	10 dB	±0.3 dB @ 2 GHz ±0.4 dB @ 4 GHz ±0.8 dB @ 8 GHz	5 W @ 25° C to 0 W @ 125°C
60 AS 105- K20 N1	≥ 30.7 dB @ DC to 1 GHz ≥ 26.4 dB @ 1 GHz to 2 GHz ≥ 20.0 dB @ 2 GHz to 8 GHz	20 dB	±0.4 dB @ 4 GHz ±0.8 dB @ 8 GHz	5 W @ 25° C to 0 W @ 125°C



Attenuators male- female

20 Watt

Ordering Number	Return Loss	Attenuation	Tolerance	Power Handling
60 AS 120- K03 N1	≥ 30.7 dB @ DC to 1 GHz ≥ 26.4 dB @ 1 GHz to 2 GHz ≥ 20.0 dB @ 2 GHz to 8 GHz	3 dB	±0.3 dB @ 2 GHz ±0.4 dB @ 4 GHz ±0.8 dB @ 8 GHz	20 W @ 25° C to 0 W @ 125°C
60 AS 120- K06 N1	≥ 30.7 dB @ DC to 1 GHz ≥ 26.4 dB @ 1 GHz to 2 GHz ≥ 20.0 dB @ 2 GHz to 8 GHz	6 dB	±0.3 dB @ 2 GHz ±0.4 dB @ 4 GHz ±0.8 dB @ 8 GHz	20 W @ 25° C to 0 W @ 125°C
60 AS 120- K10 N1	≥ 30.7 dB @ DC to 1 GHz ≥ 26.4 dB @ 1 GHz to 2 GHz ≥ 20.0 dB @ 2 GHz to 8 GHz	10 dB	±0.3 dB @ 2 GHz ±0.4 dB @ 4 GHz ±0.8 dB @ 8 GHz	20 W @ 25° C to 0 W @ 125°C
60 AS 120- K20 N1	≥ 30.7 dB @ DC to 1 GHz ≥ 26.4 dB @ 1 GHz to 2 GHz ≥ 20.0 dB @ 2 GHz to 8 GHz	20 dB	±0.4 dB @ 4 GHz ±0.8 dB @ 8 GHz	20 W @ 25° C to 0 W @ 125°C

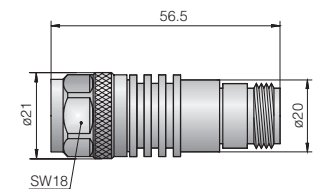


Attenuators Series N

Attenuators male- female

5 Watt

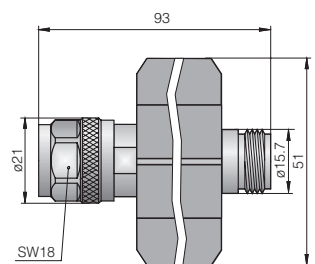
Ordering Number	Return Loss	Attenuation	Tolerance	Power Handling
53 AS 105- K03 N3	≥ 26.4 dB @ DC to 2 GHz ≥ 21.2 dB @ 2 GHz to 5 GHz ≥ 14.0 dB @ 5 GHz to 10 GHz	3 dB	±0.3 dB @ 2 GHz ±0.5 dB @ 4 GHz ±1.0 dB @ 10 GHz	5 W @ 25° C to 0 W @ 125°C
53 AS 105- K06 N3	≥ 26.4 dB @ DC to 2 GHz ≥ 21.2 dB @ 2 GHz to 5 GHz ≥ 14.0 dB @ 5 GHz to 10 GHz	6 dB	±0.3 dB @ 2 GHz ±0.5 dB @ 4 GHz ±1.0 dB @ 10 GHz	5 W @ 25° C to 0 W @ 125°C
53 AS 105- K10 N3	≥ 26.4 dB @ DC to 2 GHz ≥ 21.2 dB @ 2 GHz to 5 GHz ≥ 14.0 dB @ 5 GHz to 10 GHz	10 dB	±0.3 dB @ 2 GHz ±0.5 dB @ 4 GHz ±1.0 dB @ 10 GHz	5 W @ 25° C to 0 W @ 125°C
53 AS 105- K20 N3	≥ 26.4 dB @ DC to 2 GHz ≥ 21.2 dB @ 2 GHz to 5 GHz ≥ 14.0 dB @ 5 GHz to 10 GHz	20 dB	±0.4 dB @ 2 GHz ±0.5 dB @ 4 GHz ±1.5 dB @ 10 GHz	5 W @ 25° C to 0 W @ 125°C



Attenuators male- female

20 Watt

Ordering Number	Return Loss	Attenuation	Tolerance	Power Handling
53 AS 120- K03 N3	≥ 26.4 dB @ DC to 2 GHz ≥ 21.2 dB @ 2 GHz to 5 GHz ≥ 14.0 dB @ 5 GHz to 10 GHz	3 dB	±0.3 dB @ 2 GHz ±0.5 dB @ 4 GHz ±1.0 dB @ 10 GHz	20 W @ 25° C to 0 W @ 125°C
53 AS 120- K06 N3	≥ 26.4 dB @ DC to 2 GHz ≥ 21.2 dB @ 2 GHz to 5 GHz ≥ 14.0 dB @ 5 GHz to 10 GHz	6 dB	±0.3 dB @ 2 GHz ±0.5 dB @ 4 GHz ±1.0 dB @ 10 GHz	20 W @ 25° C to 0 W @ 125°C
53 AS 120- K10 N3	≥ 26.4 dB @ DC to 2 GHz ≥ 21.2 dB @ 2 GHz to 5 GHz ≥ 14.0 dB @ 5 GHz to 10 GHz	10 dB	±0.3 dB @ 2 GHz ±0.5 dB @ 4 GHz ±1.0 dB @ 10 GHz	20 W @ 25° C to 0 W @ 125°C
53 AS 120- K20 N3	≥ 26.4 dB @ DC to 2 GHz ≥ 21.2 dB @ 2 GHz to 5 GHz ≥ 14.0 dB @ 5 GHz to 10 GHz	20 dB	±0.4 dB @ 2 GHz ±0.5 dB @ 4 GHz ±1.5 dB @ 10 GHz	20 W @ 25° C to 0 W @ 125°C



Rosenberger SLink™ Grounding Kits, Installation Accessories

RosenbergerSLink™ grounding kits are designed for the low-induction connection of cable systems to the antenna site ground and to discharge any lightning strikes for a reliable system operation.

For fast and easy installation, a wide range of RosenbergerSLink™ installation accessories is available. Quality components such as weatherproofing kits, hoisting grips, cable clamps, cable entry plates or cable entry boots provide the reliability for years of trouble-free installations.



RosenbergerSLink™ Grounding Kits

RosenbergerSLink™ Grounding kits are designed to withstand possible lighting strikes for reliability of system operation. With premium material solid copper construction, the kits can eliminate corrosion caused by moisture and have long life expectancy.

Grounding Kits

Ordering Number	Cable Type	
SLGK 001- C03- XXX	for 1/2" cable	
SLGK 001- C02- XXX	for 3/8" cable	
SLGK 001- C05- XXX	for 7/8" cable	
SLGK 001- C06- XXX	for 1 1/4" cable	
SLGK 001- C07- XXX	for 1 5/8" cable	
SLGK 002- C03- XXX	for 1/2" cable	
SLGK 002- C02- XXX	for 3/8" cable	
SLGK 002- C05- XXX	for 7/8" cable	
SLGK 002- C06- XXX	for 1 1/4" cable	
SLGK 002- C07- XXX	for 1 5/8" cable	
SLGK 003- C03- XXX	for 1/2" cable	
SLGK 003- C02- XXX	for 3/8" cable	
SLGK 003- C05- XXX	for 7/8" cable	
SLGK 003- C06- XXX	for 1 1/4" cable	
SLGK 003- C07- XXX	for 1 5/8" cable	
SLGK 004- C03- XXX	for 1/2" cable	
SLGK 004- C02- XXX	for 3/8" cable	
SLGK 004- C05- XXX	for 7/8" cable	
SLGK 004- C06- XXX	for 1 1/4" cable	
SLGK 004- C07- XXX	for 1 5/8" cable	
SLGK 005- C03- XXX	for 1/2" cable	
SLGK 005- C02- XXX	for 3/8" cable	
SLGK 005- C05- XXX	for 7/8" cable	
SLGK 005- C06- XXX	for 1 1/4" cable	
SLGK 005- C07- XXX	for 1 5/8" cable	
SLGK 008- C03- XXX	for 1/2" cable	
SLGK 008- C05- XXX	for 7/8" cable	
SLGK 008- C06- XXX	for 1 1/4" cable	
SLGK 008- C07- XXX	for 1 5/8" cable	

xxx: Length in cm, upon customer's requests

Weatherproofing Kits

Weatherproofing Tape

The tapes and mastics are used for protection of connectors, splices and interfaces that are exposed to corrosive environmental conditions. An additional feature is to prevent the loosening of connectors at jumper cable interfaces caused by vibration.

Weatherproofing Kits

Ordering Number	Description
SLWK 001- 000	6 pcs 3M 2166 + 1pcs 3M 1712 (38 mm) + 2 pcs 3M 1712 (18 mm)
SLWK 002- 000	1 pcs 3M 23 + 1 pcs 3M 33
SLWK 003- 000	1 pcs 3M 2228 + 1 pcs 3M 33
SLWK 004- 000	2 pcs 3M 2154 + 1 pcs 3M 33
SLWK 005- 000	2 pcs 3M 2154 + 1 pcs 3M 1712



Cable Clamps

Each Cable Clamp products conform to most or all brands of coaxial cables and are designed to ultimately ease the installation process. Without additional adapters, these clamps can provide sturdy, reliable, long- term support to system by means of tough and UV material.

Cable Clamp with Adaptor

Ordering Number	Cable Type
SLCC 1X1- C03	for 1/2" cable
SLCC 1X1- C05	for 7/8" cable
SLCC 1X1- C06	for 1 1/4" cable
SLCC 1X1- C07	for 1 5/8" cable



X: number of cables

Cable Clamp without Adaptor

Ordering Number	Cable Type
SLCC 0X1- C03	for 1/2" cable
SLCC 0X1- C05	for 7/8" cable
SLCC 0X1- C06	for 1 1/4" cable
SLCC 0X1- C07	for 1 5/8" cable



X: number of cables

Double Cable Clamp

Ordering Number	Cable Type
SLCC 2X1- C03	for 1/2" cable
SLCC 2X1- C05	for 7/8" cable
SLCC 2X1- C06	for 1 1/4" cable
SLCC 2X1- C07	for 1 5/8" cable



X: number of cables

Hoisting Grips

Hoisting Grips are available for lace-up installation at any point on coaxial cable, made up of mesh grip with single eye support, it allow for quick and efficient installation.

Hoisting Grips

Ordering Number	Cable Type
SLHG 001- C03	for 1/2" cable
SLHG 001- C05	for 7/8" cable
SLHG 001- C06	for 1 1/4" cable
SLHG 001- C07	for 1 5/8" cable

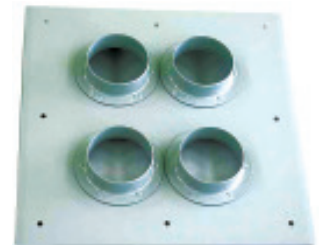


Cable Entry Plates

Cable Entry Plates with round ports are easy to install when you require multiple entries for a variety cables.

Cable Entry Plates

Ordering Number	Description
SLEP 001- 101	4", 1 Port (1x1)
SLEP 001- 102	4", 2 Port (1x2)
SLEP 001- 103	4", 3 Port (1x3)
SLEP 001- 202	4", 4 Port (2x2)
SLEP 001- 106	4", 6 Port (1x6)
SLEP 001- 203	4", 6 Port (2x3)
SLEP 001- 204	4", 8 Port (2x4)
SLEP 001- 206	4", 12 Port (2x6)
SLEP 001- 304	4", 12 Port (3x4)
SLEP 001- 404	4", 16 Port (4x4)
SLEP 001- 306	4", 18 Port (3x6)
SLEP 001- 406	4", 24 Port (4x6)



Customized cable entry plates available on request.

Cable Entry Boots

Cable Entry Boot Kits are supplied inclusive of cable boot assembly and insert, providing one piece design simplifies installation.

Cable Entry Boots

Ordering Number	Description
SLEB 011- C03	4", with 1 hole for 1/2" cables
SLEB 021- C03	4", with 2 hole for 1/2" cables
SLEB 031- C03	4", with 3 hole for 1/2" cables
SLEB 041- C03	4", with 4 hole for 1/2" cables
SLEB 011- C05	4", with 1 hole for 7/8" cables
SLEB 021- C05	4", with 2 hole for 7/8" cables
SLEB 031- C05	4", with 3 hole for 7/8" cables
SLEB 041- C05	4", with 4 hole for 7/8" cables
SLEB 011- C06	4", with 1 hole for 1 1/4" cables
SLEB 011- C07	4", with 1 hole for 1 5/8" cables



Rosenberger SLink™ Passive Intermodulation Analyzers

Basics

Passive Intermodulation

Passive Intermodulation (PIM) is a nonlinear response of two or more signals of different frequencies mixing together in a passive device, e.g. antenna, cable, connector or splitter. Today, PIM has become a very serious and challenging task for mobile operators, equipment vendors and component manufacturers due to frequency planning in modern communication networks, the usage of high-power transmitters and more sensitive receivers in base stations. If a PIM with sufficient magnitude generated from a transmitter falls within an adjacent receiver channel, it causes serious interferences to the base station receiver and will significantly degrade the network quality of service.

The cause of PIM is very complex and uncertain. Even dirty surfaces, poor soldering, and loose connections will cause serious intermodulation. Hence, in theory, it cannot be calculated nor cannot be simulated by software. To verify the PIM and look for the root cause, specific test instruments are required.

Passive Intermodulation Analyzers

Passive Intermodulation Analyzers (PIAs) are professional measurement instruments which are characterized by very low self intermodulation and high power level signal output. Their high accuracy receiver allows fast and precise measurements of the 3rd, 5th and 7th order intermodulation of passive devices under high-power conditions, e.g. connectors, cable assemblies, antennas, filters and other passive components.

Band Specifications

Portable Analyzer, Site Analyzer

Analyzer Type	Frequency Band	RX Range	TX Range	Power Output	Test Port	Residual IM @ 2x 43 dBm Reflected IM
IM- 07P, IM- 07S	LTE700	698 - 793 MHz	698 - 793 MHz	+36 ... +46 dBm	7- 16 f	< - 171 dBc
IM- 08P, IM- 08S	AMPS	824 - 849 MHz	869 - 894 MHz	+36 ... +46 dBm	7- 16 f	< - 171 dBc
IM- 09P, IM- 09S	EGSM	880 - 915 MHz	925 - 960 MHz	+36 ... +46 dBm	7- 16 f	< - 171 dBc
IM- 18P, IM- 18S	DCS 1800	1710 - 1785 MHz	1805 - 1880 MHz	+36 ... +46 dBm	7- 16 f	< - 171 dBc
IM- 19P, IM- 19S	PCS 1900	1850 - 1910 MHz	1930 - 1990 MHz	+36 ... +46 dBm	7- 16 f	< - 171 dBc
IM- 21P, IM- 21S	UMTS	1920 - 2060 MHz	2110 - 2170 MHz	+36 ... +46 dBm	7- 16 f	< - 171 dBc
IM- 26P, IM- 26S	UMTS II / LTE / BRS- EBS	2545 - 2580 MHz	2620 - 2695 MHz	+36 ... +46 dBm	7- 16 f	< - 171 dBc
IM- 35P, IM- 35S	WiMAX	3410 - 3484 MHz	3510 - 3594 MHz	+36 ... +46 dBm	7- 16 f	< - 171 dBc

Detailed specifications on request



Portable Types

The portable Passive Intermodulation Analyzer from Rosenberger has been designed to quickly and accurately measure the intermodulation characteristics of connectors, cable assemblies, antennas, filters, tower mounted devices and other passive components – fast, simple and in high precision quality. The PIA can also be used for a precise analysis of the RF infrastructure quality and performance of radio base stations. The PIM Analyzer operates in LTE 700, AMPS, EGSM, DCS, PCS, UMTS, UMTS II / LTE / BRS- EBS and WiMAX frequency bands.

Delivered in a highly shock- proof, stable transport case, the portable Rosenberger PIA is ideally suited for outdoor and field measurements, e.g. radio base stations, as well as for laboratory and manufacturing applications.

Portable Type

Ordering Number	Remarks
IM- 07P	LTE700, analyzer for reverse measurements
IM- 08P	AMPS800, analyzer for reverse measurements
IM- 09P	EGSM900, analyzer for reverse measurements
IM- 18P	DCS1800, analyzer for reverse measurements
IM- 19P	PCS1900, analyzer for reverse measurements
IM- 21P	UMTS2100, analyzer for reverse measurements
IM- 26P	UMTS II / LTE / BRS- EBS, analyzer for reverse measurements
IM- 35P	WiMAX, analyzer for reverse measurements



Site Analyzer

Especially designed for intermodulation measurements on sites.

The analyzer is installed in a rugged, waterproof case (55 x 35 x 20 cm).

Site Analyzers

Ordering Number	Remarks
IM- 07S	LTE700, analyzer for reverse measurements
IM- 08S	AMPS800, analyzer for reverse measurements
IM- 09S	EGSM900, analyzer for reverse measurements
IM- 18S	DCS1800, analyzer for reverse measurements
IM- 19S	PCS1900, analyzer for reverse measurements
IM- 21S	UMTS2100, analyzer for reverse measurements
IM- 26S	UMTS II / LTE /BRS- EBS, analyzer for reverse measurements
IM- 35S	WiMAX, analyzer for reverse measurements



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Certified by ISO/TS 16949 · ISO 9001 · ISO 14001

Ordering No.
info502SLink/5000/05-2009
pA 143612

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Production **Thewald Kommunikation**