



RSRS SERIES STEEL CORD GRIPS

RSRS SERIES STEEL CORD CONNECTORS

The Tuff-Seal™ RSRS series of corrosion-resistant cord connectors features a body and compression nut made of zinc-chromium plated steel for added strength and durability, enhanced resistance to rust and a better physical appearance. These connectors are ideally suited for use in washdowns or high moisture environments in food processing plants, petrochemical facilities, wastewater treatment plants, pulp & paper mills and chemical manufacturing factories.

RSRS cord connectors have been designed to withstand the extremes of water, caustic materials, detergents or surfactants.

RSRS Corrosion-Resistant Connectors can be ordered with or without wire mesh and accommodate 3/8", 1/2", 3/4" and 1" conduit. The combination tightening surface on these connectors is a unique Remke design that provides a large wrenching area for easy installation. And the knurl section offers users an extra gripping surface for initial hand tightening.

NOTES

SPECIAL CONFIGURATIONS

Special configurations and materials are available. Consult factory.

All wire mesh is stainless steel.

Dimension & certification information on in Tuff-Seal Technical Reference. Dimensions are the same as those for RSR Straight Cord Grips.

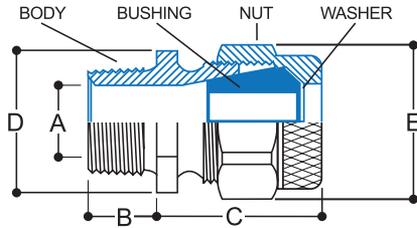
COMPLETE ASSEMBLY PART NUMBERS

RSRS SERIES STEEL CORD GRIPS			
Conduit Size (NPT)	Cable Range	Cord Grip	Cord Grip With Mesh
3/8"	.125 – .188	RSRS-003	—
	.188 – .250	RSRS-004	RSRS-004-E
	.250 – .312	RSRS-005	RSRS-005-E
	.312 – .375	RSRS-006	RSRS-006-E
	.375 – .438	RSRS-007	RSRS-007-E
1/2"	.125 – .188	RSRS-103	—
	.188 – .250	RSRS-104	RSRS-104-E
	.250 – .312	RSRS-105	RSRS-105-E
	.312 – .375	RSRS-106	RSRS-106-E
	.375 – .438	RSRS-107	RSRS-107-E
	.438 – .500	RSRS-108	RSRS-108-E
	.500 – .562	RSRS-109	RSRS-109-E
3/4"	.562 – .625	RSRS-110	RSRS-110-E
	.438 – .500	RSRS-208	RSRS-208-E
	.500 – .562	RSRS-209	RSRS-209-E
	.500 – .625	RSRS-210	RSRS-210-E
	.562 – .688	RSRS-211	RSRS-211-E
	.625 – .750	RSRS-212	RSRS-212-E
1"	.688 – .812	RSRS-213*	RSRS-213-E
	.500 – .562	RSRS-309	RSRS-309-E
	.500 – .625	RSRS-310	RSRS-310-E
	.562 – .688	RSRS-311	RSRS-311-E
	.625 – .750	RSRS-312	RSRS-312-E
	.688 – .812	RSRS-313	RSRS-313-E
	.750 – .875	RSRS-314	RSRS-314-E
	.812 – .938	RSRS-315	RSRS-315-E
1 1/4"	.875 – 1.000	RSRS-316	RSRS-316-E
	.875 – 1.000	RSRS-416	—
	1.125 - 1.250	RSRS-418	—
	1.125 - 1.250	RSRS-420	—
1 1/2"	1.250 - 1.375	RSRS-422	—
	875 - 1.000	RSRS-516	—
	1.000 – 1.125	RSRS-518	—
	1.125 – 1.250	RSRS-520	—
1.250 – 1.375	RSRS-522	—	

*Cable may have to be stripped to pass through the bore of the body



RSR STRAIGHT CORD GRIP DIMENSIONS



ALUMINUM AND NICKEL-PLATED ALUMINUM

Conduit Size	RSR Series	Form Size	A Inside Body Dia.	B	C	D Body Hex	E Nut
1/4"	0000	1	0.34	0.44	0.96	0.88	0.96
3/8"	000	1	0.47	0.44	0.96	0.88	0.96
1/2"	1000	1	0.47	0.44	0.95	0.88	0.96
1/2"	100	2	0.61	0.56	1.12	1.00	1.25
1/2"	1200	3	0.62	0.54	1.40	1.25	1.53
3/4"	2100	2	0.61	0.56	1.20	1.12	1.25
3/4"	200	3	0.80	0.57	1.42	1.25	1.53
3/4"	2300	4	0.81	0.57	1.49	1.37	1.72
1"	300	4	0.99	0.62	1.46	1.44	1.72
1"	3500	5	1.06	0.69	1.91	2.00	2.47
1 1/4"	400	5	1.32	0.69	1.80	2.00	2.00
1 1/2"	500	5	1.43	0.69	1.84	2.25	2.47
1 1/2"	5600	6	1.50	0.80	2.39	2.62	2.97
2"	600	6	2.00	0.80	2.39	2.83	2.97
2"	6700	7	1.90	0.80	3.32	4.00	4.20
2 1/2"	700	7	2.36	1.28	3.19	4.00	4.20
3"	8700	7	2.35	1.31	3.07	4.00	4.20
3"	900	9	3.05	1.39	3.14	4.75	4.00
3 1/2"	1150	8	3.25	1.47	4.65	5.36	6.22
4"	1250	9	3.60	1.47	4.86	5.82	6.66

Dimension A is the minimum Inside Body Diameter. Other dimensions are nominal.
Dimension E is cross corners of the nut.

NYLON AND VALOX

Conduit Size	Form Size	A Inside Body Dia.	B	C	D Body Hex	E Nut
3/8"	1	0.44	0.49	0.70	0.94	0.94
1/2"	2	0.50	0.88	1.12	1.25	1.25
3/4"	3	0.56	0.88	1.38	1.50	1.50

STEEL

Conduit Size	Form Size	A Inside Body Dia.	B	C	D Body Hex	E Nut
3/8"	1	0.47	0.44	0.56	0.88	0.88
1/2"	2	0.62	0.56	0.69	1.00	1.26
3/4"	3	0.81	0.56	0.85	1.25	1.37
1"	4	0.99	0.63	0.94	1.43	1.56

STAINLESS STEEL

Conduit Size	RSSS SERIES	Form Size	A Inside Body Dia.	B	C	D Body Hex	E Nut
3/8"	000	1	0.47	0.44	0.88	0.94	0.96
1/2"	100	2	0.61	0.56	1.18	1.12	1.25
3/4"	200	3	0.81	0.57	1.44	1.37	1.50
1"	300	4	0.99	0.62	1.49	1.56	1.72
1 1/4"	400	5	1.32	0.69	2.04	2.00	2.48
1 1/2"	500	5	1.44	0.69	1.93	2.25	2.48
2"	600	6	2.00	0.80	2.43	2.83	2.97
2 1/2"	700	7	2.36	1.25	2.96	3.75	3.95
3"	900	9	3.05	1.39	3.01	4.75	5.00
3 1/2"	1150	11	3.00	1.47	4.41	5.36	6.22
4"	1250	12	3.60	1.47	4.53	5.82	6.66



TUFF-SEAL™ TECHNICAL REFERENCE SECTION

RoHS STATEMENT

Remke Industries supports the European Union's efforts to remove harmful chemicals from electrical products. In compliance with Directive 2011/65/EU of the European Parliament and the Council of the European Union regarding the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), Remke Industries certifies either:

1. The maximum concentration values of weight in homogenous materials for the substances referred to in Article 4(1) of directive 2002/95/EC that are contained in the Products do not exceed the maximum concentration values of 0.1% in respect of lead, mercury, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers, and 0.01% in respect of cadmium. OR

2. The product supplied is exempt from this directive.

Remke Industries certifies that all products of our manufacture are fully compliant to the current RoHS Directive.

ISO CERTIFICATION



On July 1st, 2003 Remke Industries received ISO 9001 : 2000 certification which certifies that Remke is compliant with current ISO standards.

KNOCKOUT DIMENSIONS

N.P.T. Hub Size	Knockout Hole Recommended (Min to Max/Inches)
1/4"	.540 to .570
3/8"	.671 to .701
1/2"	.859 to .906
3/4"	1.094 to 1.141
1"	1.359 to 1.406
1 1/4"	1.719 to 1.766
1 1/2"	1.969 to 2.016
2"	2.453 to 2.500
2 1/2"	2.953 to 3.000
3"	3.578 to 3.625
3 1/2"	3.570 TO 4.040
4"	4.550 TO 4.630

OPERATING TEMPERATURES

Material	Temperature range
Aluminum	-40°F to +300°F (-40°C to +149°C)
Buna-N	-40°F to +250°F (-40°C to +121°C)
Nylon	-40°F to +225°F (-40°C to +107°C)
Steel	-60°F to +1000°F (-51°C to +537°C)
Stainless Steel	-60°F to +1000°F (-51°C to +537°C)
Neoprene (bushings)	-40°F to +250°F (-40°C to +121°C)
Silicone (bushings)	-150°F to + 390°F (-101°C to +199°C)
Valox	-40°F to +250°F (-40°C to +121°C)
Dome-Cap Connectors:	
Non-Metallic	-22°F to +176°F (-30°C to +80°C)
Metallic	-40°F to +212°F (-40°C to +100°C)

FLAMMABILITY

Component	Rating
Mesh Grip	UL 94HB
Fitting	UL 94V-2

Note: Non-metallic cord connectors will not support combustion.

APPROVALS, CERTIFICATION & COMPLIANCES

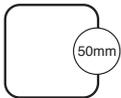
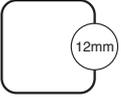
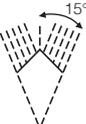
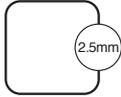
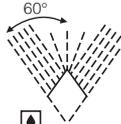
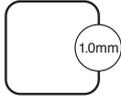
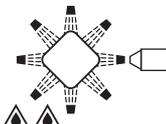
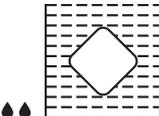
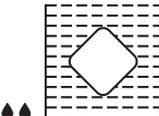
AGENCY	FILE NUMBER	PRODUCT OR COMPONENT
Underwriters Laboratories Inc. (UL)	E53599	RSR Series (Straight, 90°, 45°) RSP Series (Straight, 90°) RSM Cord Grips RSRs Cord Grips RSRF Series
	E52002	Liqua-Seal Connectors
	E52002(N)	WH Series Watertight Conduit Hubs
	E157356(N)	WH Series Watertight Conduit Hubs
Canadian Standards Association (CSA)	28985	RSR Series (Straight, 90°, 45°) RSP Series (Straight, 90°) RSRS Cord Grips RSRF Series RSSS Series RSPV Series RTK Series MC Cable Connectors Watertight Conduit Hubs
National Electrical Code (NEC)	Articles 400-10	RSR Series (Straight, 90°, 45°)
	Articles 400-14	RSP Series (Straight, 90°) RSM Cord Grips RSRS Cord Grips RSRF Series
	Articles 501-4(B)	WH Series Watertight Conduit Hubs
	Articles 502-4(A)	WH Series Watertight Conduit Hubs
	Articles 503-3(A)	WH Series Watertight Conduit Hubs
ROHS & WEE	All Tuff-Seal and Tuff-Link Products are Compliant	

HAZARDOUS LOCATIONS

Definition	Remke Products
The Remke products listed are suitable for use in hazardous locations per Class I, Div. 2, Class II, Div 1 & 2, and Class III, Div. 1 & 2	RSR Series (Straight, 90°, 45°) WH Series Watertight Conduit Hubs RSP Series (Straight, 90°) RSM Cord Grips, RSRS Cord Grips RSRF Series

RATINGS/MATERIAL OF CONSTRUCTION						
MATERIAL	IP 54 AND NEMA 3	IP 54 AND NEMA 3R	IP 65 AND NEMA 4	IP 56 AND NEMA 4X	IP 67 AND NEMA 6	IP 52 AND NEMA 12
Aluminum	X	X	X	—	X	X
Nickel-Plated Aluminum	X	X	X	X	X	X
Steel	X	X	X	—	X	X
Stainless Steel	X	X	X	X	X	X
Nylon	X	X	X	—	X	X
Valox	X	X	X	X	X	X

IP RATINGS DEFINITION

First Digit	Protection From Solid Objects	Second Digit	Protection From Moisture
0	Non-Protected	0	Non-Protected
1	 <p>Protected against solid objects over 50mm e.g hands, large tools</p>	1	 <p>Protection against vertically falling drops of water</p>
2	 <p>Protected against solid objects over 12mm e.g hands, large tools</p>	2	 <p>Protection against direct sprays of water up to a 15° angle</p>
3	 <p>Protection from entry by solid objects over 2.5mm e.g. wire or small tools</p>	3	 <p>Protection against direct sprays of water up to a 60° angle</p>
4	 <p>Protection from entry by solid objects over 1.0mm e.g. wires or tools</p>	4	 <p>Protection against water sprayed from any direction. Limited ingress permitted.</p>
5	 <p>Protection against deposits of dust e.g. against equipment damage due to deposits</p>	5	 <p>Protection against low pressure water jets from any direction. Limited ingress permitted</p>
6	 <p>Total protection against dust ingress e.g. Dust-Tight</p>	6	 <p>Protection against high pressure water jets from any direction. Limited ingress permitted.</p>
IP CODE EXAMPLE			
IP54 = IP (IP LETTER CODE), 5 (1st Digit), 4 (2nd Digit)			
7		7	 <p>Protection against immersion between 15cm and 1M</p>
8		8	 <p>Protection against complete and continuous immersion in water under pressure e.g Water-Tight</p>

THREAD SPECIFICATIONS

PG THREAD SPECIFICATIONS		
Thread Size	Major Diameter (mm)	Pitch (mm)
Pg 7	12.5	1.27
Pg 9	15.2	1.41
Pg 11	18.6	1.41
Pg 13.5	20.4	1.41
Pg 16	22.5	1.41
Pg 21	28.3	1.56
Pg 29	37.0	1.56
Pg 36	47.0	1.56
Pg 42	54.0	1.56
Pg 48	59.3	1.56

NPT THREAD SPECIFICATIONS		
Thread Size	Major Diameter (mm)	Pitch (mm)
NPT 1/4"	13.7	1.41
NPT 3/8"	17.1	1.41
NPT 1/2"	21.3	1.81
NPT 3/4"	26.7	1.81
NPT 1"	33.4	2.21
NPT 1-1/4"	48.3	2.21
NPT 1-1/2"	47.0	2.21
NPT 2"	60.3	2.21

METRIC THREAD SPECIFICATIONS		
Thread Size	Major Diameter (mm)	Pitch (mm)
M12 X 1.5	12	1.50
M16 X 1.5	16	1.50
M20 X 1.5	20	1.50
M25 X 1.5	25	1.50
M32 X 1.5	32	1.50
M40 X 1.5	40	1.50
M50 X 1.5	50	1.50
M63 X 1.5	63	1.50