

RSR Series Straight Aluminum Cord Grips

Tuff Seal™ RSR Series Aluminum Cord Grips are UL Listed and CSA Certified for use in both indoor and outdoor

applications to prevent cable pullout, control arc of bend, and to provide a tight seal against environmental elements such as dirt, moisture and coolants.

The breadth of the line encompasses conduit sizes from 1/4" to 3" with fittings offered in machined aluminum, nickel-plated aluminum, steel, stainless steel, nylon and Valox®. Other features of the family of RSR Cord Grips include:

- A unique design with a combination tightening surface that includes both a hex area and a knurled surface
- Available with or without stainless steel wire mesh
- Optional embedded Viton® O-Ring ensures a watertight and corrosion-resistant seal
- Available in NPT, Pg/ISO or Metric threads
- Anti-friction washer that fits between the nut and bushing for easier compression.

(Continues on pages 12-13)

NOTES

Cord Grip Accessories

Locknuts: add "-L" to any part number O-Rings: add "-R" to any part number

Special Configurations

Special configurations and materials are available. Consult factory.

All wire mesh is stainless steel.

Dimension & certification information on page 50 & 52 in Tuff-Seal Technical Reference.

COMPLETE ASSEMBLY PART NUMBERS





Conduit		Cord	Cord Grip	
Size (NPT)	Cable Range	Grip	With Mesh	
1/4"				
	.125 – .188	RSR-0003	_	
	.188 – .250	RSR-0004	RSR-0004-E	
	.250 – .312	RSR-0005	RSR-0005-E	
	.312 – .375	RSR-0006	RSR-0006-E	
	.375 – .438	RSR-0007*	RSR-0007-E	
3/8"				
	.125 – .188	RSR-003		
	.188 – .250	RSR-004	RSR-004-E	
	.250 – .312	RSR-005	RSR-005-E	
	.312 – .375	RSR-006	RSR-006-E	
	.375 – .438	RSR-007*	RSR-007-E	
1/2"				
	.125 – .188	RSR-1003	_	
	.188 – .250	RSR-1004	RSR-1004-E	
	.250 – .312	RSR-1005	RSR-1005-E	
	.312 – .375	RSR-1006	RSR-1006-E	
	.375 – .438	RSR-1007	RSR-1007-E	
	.125 – .188	RSR-103	_	
	.188 – .250	RSR-104	RSR-104-E	
	.250 – .312	RSR-105	RSR-105-E	
	.312 – .375	RSR-106	RSR-106-E	
	.375 – .438	RSR-107	RSR-107-E	
	.438 – .500	RSR-108	RSR-108-E	
	.500562	RSR-109	RSR-109-E	
	.562 – .625	RSR-110	RSR-110-E	
	.438 – .500	RSR-1208	RSR-1208-E	
	.500562	RSR-1209	RSR-1209-E	
	.562 – .625	RSR-1210	RSR-1210-E	
	.562 – .688	RSR-1211*	RSR-1211-E	
	.625 – .750	RSR-1212*	RSR-1212-E	
	.688 – .812	RSR-1213*	RSR-1213-E	
3/4"				
	.125 – .188	RSR-2103	RSR-2103-E	
	.188 – .250	RSR-2104	RSR-2104-E	
	.250 – .312	RSR-2105	RSR-2105-E	
	.312 – .375	RSR-2106	RSR-2106-E	
	.375 – .438	RSR-2107	RSR-2107-E	
	.438 – .500	RSR-2108	RSR-2108-E	
	.500 – .562	RSR-2109	RSR-2109-E	
	.562 – .625	RSR-2110	RSR-2110-E	
	.438 – .500	RSR-208	RSR-208-E	
	.500 – .562	RSR-209	RSR-209-E	
	.562 – .625	RSR-210	RSR-210-E	
	.562 – .688	RSR-211	RSR-211-E	
	.625 – .750	RSR-212	RSR-212-E	
	.688 – .812	RSR-213	RSR-213-E	
	.500 – .562	RSR-2309	RSR-2309-E	
	.562 – .625	RSR-2310	RSR-2310-E	
	.562 – .688	RSR-2311	RSR-2311-E	
	.625 – .750	RSR-2312	RSR-2312-E	
	.688 – .812	RSR-2313	RSR-2313-E	
	.750 – .875	RSR-2314*	RSR-2314-E	
	.812 – .938	RSR-2315*	RSR-2315-E	
	.875 – 1.000	RSR-2316*	RSR-2316-E	
*Cable mav h	ave to be stripped to p			







Nickel-plated aluminum: Cord grips available in nickel-plated aluminum. Add "N" to end of prefix. (ex: RSR-0003 becomes RSRN-0003)



RoHS∜ **STATEMENT**

Remke Industries supports the European Union's efforts to remove harmful chemicals from electrical products. In compliance with Directive 2002/95/EC 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.

OPERATING TEMPERA	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 (-65°C to +232°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 cor	rd connectors will not support combustion.	

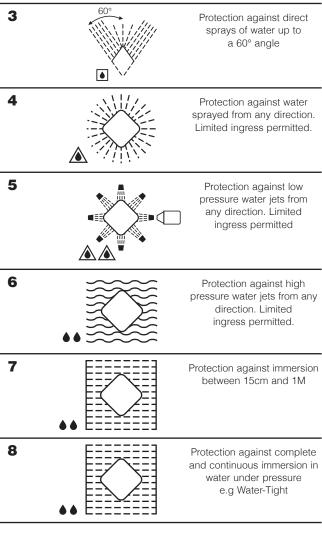
APPROVALS, CER	RTIFICATION 8	& COMPLIANCES
Agency	File Number	Product or Component
Underwriters	E53599	RSR Series (Straight, 90°, 45°)
Laboratories Inc. (UL)		RSP Series (Straight, 90°)
		RSM Cord Grips
		RSRS Cord Grips
		RSRF Series
	E52002	Liqua-Seal Connectors
	E52002(N)	WH Series Watertight Conduit Hubs
	E157356(N)	WH Series Watertight Conduit Hubs
Canadian Standards	28985	RSR Series (Straight, 90°, 45°)
Association (CSA)		RSP Series (Straight, 90°)
		RSRS Cord Grips
		RSRF Series
		RSSS Series
		RSPV Series
		MC Cable Connectors
		Watertight Conduit Hubs
National Electrical	Articles 400-10	RSR Series (Straight, 90°, 45°)
Code (NEC)	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 T	uff-Link Products are Compliant

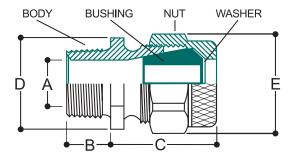
HAZARDOUS LOCATIONS	
Definition	Remke Products
The Remke products listed are	RSR Series (Straight, 90°, 45°)
suitable for use in hazardous locations	WH Series Watertight Conduit Hubs
per Class I, Div. 2, Class II, Div 1 & 2,	RSP Series (Straight, 90°)
and Class III, Div. 1 & 2	RSM Cord Grips, RSRS Cord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

KNOCKOUT	KNOCKOUT DIMENSIONS				
N.P.T.	Knockout Hole Recommended				
Hub Size	(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				

	IP 54 and	IP 54 and	IP 65 and	IP 56 and	IP 67 and	IP 52 and
Material	NEMA 3	NEMA 3R	NEMA 4	NEMA 4X	NEMA 6	NEMA 12
Aluminum	Χ	Χ	Χ	_	Χ	Х
Nickel-Plated Aluminum	Χ	Χ	Χ	Χ	Χ	Χ
Steel	Χ	X	Χ	_	Χ	X
Stainless Steel	Χ	Χ	Χ	X	Χ	Χ
Nylon	Χ	Χ	Χ	_	Χ	Х
Valox	Χ	Χ	Χ	Χ	Χ	Χ

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





Conduit	RSR	Form	A	В	C	D	E
Size	Series	Size	Inside Body Dia.			Body Hex	Nut Dia.
1/4"	000	1	0.34	0.44	0.59	0.88	0.96
3/8"	00	1	0.46	0.44	0.59	0.88	0.96
1/2"	1000	1	0.46	0.44	0.59	0.88	0.96
1/2"	100	2	0.62	0.56	0.72	1.00	1.26
1/2"	1200	3	0.62	0.54	0.86	1.37	1.55
3/4"	2100	2	0.62	0.56	0.72	1.12	1.26
3/4"	200	3	0.81	0.57	0.86	1.25	1.55
3/4"	2300	4	0.81	0.57	0.97	1.37	1.74
1"	300	4	1.00	0.62	0.97	1.44	1.74
1"	3500	5	1.10	0.70	1.25	2.00	2.47
1 1/4"	400	5	1.30	0.70	1.25	2.00	2.47
1 1/2"	500	5	1.43	0.70	1.25	2.47	2.47
1 1/2"	5600	6	1.44	1.00	1.72	2.90	2.97
2"	600	6	2.03	0.80	1.72	2.46	2.97
2"	6700	7	1.90	1.31	3.50	4.00	4.30
2 1/2"	700	7	2.36	1.31	3.50	4.00	4.30
3"	8700	7	2.36	1.31	3.50	4.00	4.30
3"	900	9	3.05	1.39	3.35	5.00	5.00

Dimension A is the minimum Inside Body Diameter. Other dimensions are nominal.

Dimension D is with the Nut snug but Bushing uncompressed.

Dimension E is across the flats.

NYLON AND VAI	LOX					
Conduit	Form	Α	В	С	D	E
Size	Size	Inside Body Dia.			Body Hex	Nut Dia.
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	Form	Α	В	С	D	E
Size	Size	Inside Body Dia.			Body Hex	Nut Dia.
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	Form	Α	В	С	D	E
Size	Size	Inside Body Dia.			Body Hex	Nut Dia.
3/8"	1	0.47	0.44	0.56	0.94	0.88
1/2"	2	0.62	0.56	0.69	1.12	1.26
3/4"	3	0.81	0.56	0.85	1.37	1.37
1"	4	1.00	0.63	0.94	1.56	1.56