



### **RSP Series Nylon Corrosion-Resistant Cord Connectors**

The Tuff Seal RSP Series of Non-Metallic Cord Connectors constructed of a durable, nylon material which

offers excellent corrosion resistance, is lightweight, durable and ideal for use in damp environments. RSP Cord Connectors are ideally suited for use in applications with moisture or washdowns and they provide an environmental seal against dirt, coolants, fumes and the like.

RSP Corrosion-Resistant Connectors can be ordered with or without wire mesh attachments. The straightbody style accommodates 3/8", 1/2" and 3/4" conduit sizes while the 90° body fits 1/2" and 3/4" conduit. These connectors also feature a compression bushing made of high-quality, oil resistant Neoprene rubber with an anti-friction washer made of nylon.

RSP Connectors are suitable for use in both indoor and outdoor applications to prevent cable pullout and control arc of bend.

### **NOTES**

Cord Grip Accessories

Locknuts: add "-L" to any part number

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

Also available in yellow. Add "-Y" to part number.

Special Configurations

Special configurations and materials are available.

Consult factory.

All wire mesh is stainless steel.

Dimension & certification information on pages 50 & 54 in

Tuff-Seal Technical Reference.







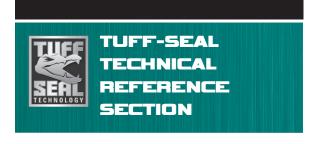
#### **RSP SERIES-STRAIGHT**

COMPLETE A	SSEMBLY PART NU	JMBERS	
Conduit		Cord	Cord Grip
Size (NPT)	Cable Range	Grip	With Mesh
3/8"			
	.125 – .188	RSP-003	RSP-003-E
	.188 – .250	RSP-004	RSP-004-E
	.250 – .312	RSP-005	RSP-005-E
	.312 – .375	RSP-006	RSP-006-E
	.375 – .438	RSP-007	RSP-007-E
1/2"			
	.125 – .188	RSP-103	RSP-103-E
	.188 – .250	RSP-104	RSP-104-E
	.250 – .312	RSP-105	RSP-105-E
	.312 – .375	RSP-106	RSP-106-E
	.375 – .438	RSP-107	RSP-107-E
	.438 – .500	RSP-108	RSP-108-E
	.500 – .562	RSP-109	RSP-109-E
	.562625	RSP-110	RSP-110-E
3/4"			
	.438 – .500	RSP-208	RSP-208-E
	.500562	RSP-209	RSP-209-E
	.500 – .625	RSP-210	RSP-210-E
	.562 – .688	RSP-211	RSP-211-E
	.625 – .750	RSP-212	RSP-212-E
	.688 – .812	RSP-213	RSP-213-E

### **RSP SERIES-90°**

COMPLETE A	SSEMBLY PART NU	JMBERS	
Conduit		Cord	Cord Grip
Size (NPT)	Cable Range	Grip	With Mesh
1/2"			
	.125 – .188	RSP-9103	RSP-9103-E
	.188 – .250	RSP-9104	RSP-9104-E
	.250312	RSP-9105	RSP-9105-E
	.312 – .375	RSP-9106	RSP-9106-E
	.375 – .438	RSP-9107	RSP-9107-E
	.438 – .500	RSP-9108	RSP-9108-E
	.500562	RSP-9109	RSP-9109-E
	.562 – .625	RSP-9110	RSP-9110-E
3/4"			
	.500 – .562	RSP-9209	RSP-9209-E
	.500625	RSP-9210	RSP-9210-E
	.562 – .688	RSP-9211	RSP-9211-E
	.625 – .750	RSP-9212	RSP-9212-E
	688 - 812	RSP-9213	RSP-9213-F

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



### 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	DPERATING 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.	

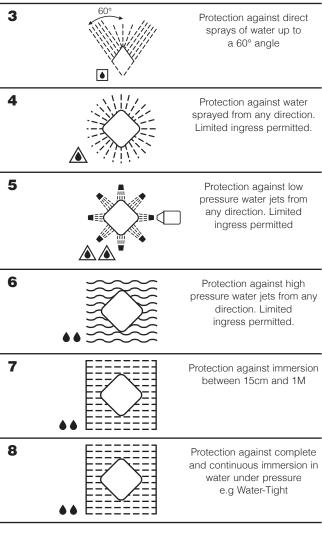
APPROVALS, CER	RTIFICATION 8	& COMPLIANCES
Agency	File Number	Product or Component
Underwriters	E53599	RSR Series (Straight, 90°, 45°)
Laboratories Inc. (UL)		RSP Series (Straight, 90°)
		RSM Cord Grips
		RSRS Cord Grips
		RSRF Series
	E52002	Liqua-Seal Connectors
	E52002(N)	WH Series Watertight Conduit 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

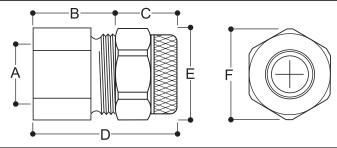
KNOCKOUT	KNOCKOUT DIMENSIONS						
N.P.T.	Knockout Hole Recommended						
<b>Hub Size</b>	(Min to Max/Inches)						
1/4"	.540 to .570						
3/8"	.671 to .701						
1/2"	.859 to .906						
3/4"	1.094 to 1.141						
1"	1.359 to 1.406						
1 1/4"	1.719 to 1.766						
1 1/2"	1.969 to 2.016						
2"	2.453 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	Χ	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.
<b>P CODE</b> IP54 = I	<b>EXAMPLE</b> P (IP LETTER CODE), 5 (1st	Digit), 4 (2nd Digit)	7	••	Protection against immersior between 15cm and 1M
			8	F=====3	Protection against complete

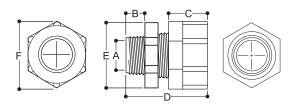


## **RSRF SERIES CORD GRIP DIMENSIONS**



Conduit	Α	В	С	D	E	F
Size	<b>Body Bore</b>				Body Hex	Nut Dia.
3/8"	0.44	0.62	0.75	1.38	0.88	0.99
1/2"	0.62	0.69	1.06	1.75	1.12	1.33
3/4"	0.63	0.81	1.00	1.81	1.31	1.33
1"	0.94	0.94	1.31	2.25	1.63	1.70
11/4"	1.44	1.06	1.69	2.75	2.25	2.55
11/2"	1.44	1.06	1.69	2.75	2.25	2.55
2"	1.88	1.25	2.38	3.63	2.75	3.25
NOTE: Dimens	sions for the RSRH Hub S	tyle Cord Grips are the	e same as above except	for the addition of the	nipple.	

# RSP AND RSPV STRAIGHT CORD GRIPS DIMENSIONS



	Α	В	С	D	E	F
Conduit	Body				Body	Nut
Size	Bore				Hex	Dia.
3/8"	0.44	0.49	0.70	1.63	0.94	0.94
1/2"	0.57	0.50	0.88	2.01	1.12	1.25
3/4"	0.76	0.56	0.88	2.10	1.38	1.50

Dimension A is the minimum Body Bore. Other dimensions are nominal.

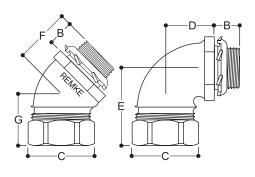
 $\label{eq:def:DimensionD} \mbox{Dimension D is } \mbox{with the Nut snug but bushing uncompressed.}$ 

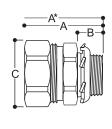
Dimension E is across the Straight Body hex. flats.

Dimension F is across Nut hex. flats.

Dimensions are approximate.

# **LIQUA-SEAL CONNECTOR DIMENSIONS**





Conduit	Hub	Α	<b>A</b> *	В	С	С	D	E	F	G
Size	Size				Flats	Corners				
3/8"	1/2"	1.47	4.47	0.50	1.00	1.10	1.37	1.58	0.84	1.26
1/2"	1/2"	1.47	4.97	0.50	1.13	1.23	1.37	1.75	0.87	1.47
3/4"	3/4"	1.54	5.54	0.56	1.38	1.52	1.53	1.91	0.95	1.55
1"	1"	1.96	6.96	0.64	1.63	1.80	1.81	2.23	1.10	1.81
1 1/4"	1 1/4"	2.09	8.09	0.72	2.25	2.41	2.05	2.33	1.35	1.84
1 1/2"	1 1/2"	2.09	8.84	0.72	2.50	2.68	2.18	2.46	1.43	1.90
2"	2"	2.16	10.16	0.78	3.00	3.21	2.51	2.73	1.53	2.00