American El ectrical, Inc.

Industrial Electrical Accessories

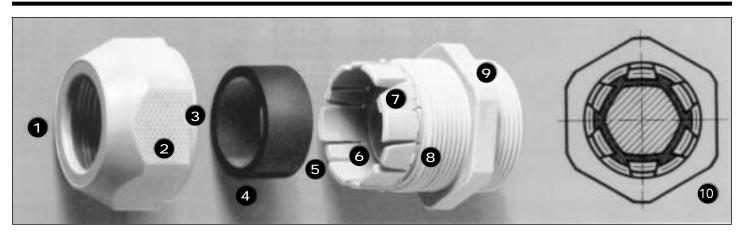
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'Tight Seal Cable Grips



'Tight Seal ' IP68 Nyl on Cabl e Grips

by AGRO



Main Features: Cable Grips

Wider domed nut which can not be over-tightened. The wide dome design allows space for the neoprene seal to form a tight grip on the cable, forming an IP68 barrier. (please refer to Ingress Protection [IP] ratings on the back page.)

Generous deep flats

The deep flats allow enough room for the proper wrench to tighten or loosen the cable grip without the wrench coming off.

Spacer

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A small spacer exists between the domed nut and the locking collett, providing an additional seal when fully tightened.

Neoprene rubber seal

This seal grips around the cable to form the IP68 barrier when properly tightened.

Webs are staggered for better grip Webs are designed in an al ternating geometry which enhances gripping capability.

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Staggered webs

The web disign is staggered to allow for seal conformity around the cable to maximize the pull out resistance and protection against the elements.

Sprung webs

The webs are designed so that they will spring back to their original open position making installation easy while maintaining the seal quality.

Retention springs for domed nut

The 'Tight Seal' design allows the domed nut to lock with the collett before any threads are engaged. This guards against misthreads as well as aids in the instal lation process.

Seal ing I ip

The collett design incorporates a sealing lip which provides for a positive seal against the enclosure.

Anti-Twist cable locking collett The entire design of the 'Tight Seal ' product line insures that cables will not twist or turn once Locked down.

Technical Data

Material:

Polyamide PA 6, self-extinguishing, halogenfree

Seal : Neoprene, oil and petroleum resistant

Operating temperature: -40°C to 100°C, short-term 120°C Static: Dynamic: -30°C to 80°C, short-term 100°C

Weather resistance good

Strain rel ief: Smooth action Safety Class: IP68, waterproof (5 bar)

Patents: Europe, USA, Japan

VDE Test Report:

12 796-9000-4001/A 2 J.

UL test (Underwriters Laboratories Inc.)

Ll oyd's Register of Shipping certificate

Germanische Ll oyd certificate



'Tight Seal ' IP68 Nyl on Cabl e Grips Cabl e Grips with Lock Nuts

IP68	Cabl e Diameter		WRENCH SIZE	Thread Type										
Nylon				Dimensions		PG			NPT			Metric		
Cabl e	inches	mm	NA N	H L		Size	Part	No.	Size	Part No.		Size	Part No.	
Grips	Ø	Ø	mm	mm	mm		gray	bl ack	inch	gray	bl ack	mm	gray	bl ack
	0.10-0.26	2.5-6.5	15	21	8	7	1555.07.06	1545.07.06				12x1.5	1555.12.06	1545.12.06
	0.12-0.31	3.0-8.0	19	23	8	9	1555.09.08	1545.09.08	3/8	1555.N0375.08	1545.N0375.08	16x1.5	1555.17.08	1545.17.08
0	0.08-0.28	2.0-7.0	22	22	8	11	1555.11.07	1545.11.07						
0	0.16-0.39	4.0-10.0	22	22	8	11	1555.11.10	1545.11.10						
	0.12-0.28	3.0-7.0	24	26	9	13	1555.13.07	1545.13.07	1/2	1555.N0500.07	1545.N0500.07	20x1.5	1555.20.07	1545.20.07
	0.22-0.47	5.5-12.0	24	26	9	13	1555.13.12	1545.13.12	1/2	1555.N0500.12	1545.N0500.12	20x1.5	1555.20.12	1545.20.12
	0.20-0.43	5.0-11.0	27	30	10	16	1555.16.11	1545.16.11						
120	0.33-0.55	8.5-14.0	27	30	10	16	1555.16.14	1545.16.14						
H	0.26-0.55	6.5-14.0	33	35	11	21	1555.21.14	1545.21.14	3/4	1555.N0750.14	1545.N0750.14	25x1.5	1555.25.14	1545.25.14
	0.43-0.71	11.0-18.0	33	35	11	21	1555.21.18	1545.21.18	3/4	1555.N0750.18	1545.N0750.18	25x1.5	1555.25.18	1545.25.18
1	0.67-0.87	17.0-22.0	42	36	15				1	1555.N1000.22	1545.N1000.22			
	0.67-0.98	17.0-25.0	42	36	11	29	1555.29.25	1545.29.25				32x1.5	1555.32.25	1545.32.25
	0.87-1.30	22.0-33.0	53	48	15	36	1555.36.33	1545.36.33						
	1.10-1.50	28.0-38.0	60	48	15	42	1555.42.38	1545.42.38						
	1.26-1.73	32.0-44.0	65	48	15	48	1555.48.44	1545.48.44						

Lock Nuts Provided with Cable Grips

IP68	Cabl e Diameter		WRENCH SIZE	Thread Type										
Nylon				Dimensions		PG			NPT			Metric		
Strain Rel ief	inches	mm	N N	н	L	Size	Part	No.	Size	Part	No.	Size	Part No.	
Cable	Ø	Ø	mm	mm	mm		gray	bl ack	inch	gray	bl ack	mm	gray	bl ack
Grips	0.10-0.26	2.5-6.5	15	54	8	7	1576.07.06	1546.07.06				12x1.5	1576.12.06	1546.12.06
0	0.12-0.31	3.0-8.0	19	64	8	9	1576.09.08	1546.09.08	3/8	1576.N0375.08	1546.N0375.08	16x1.5	1576.17.08	1546.17.08
	0.08-0.28	2.0-7.0	22	77	8	11	1576.11.07	1546.11.07						
- 24	0.16-0.39	4.0-10.0	22	77	8	11	1576.11.10	1546.11.10						
25	0.12-0.28	3.0-7.0	24	88	9	13	1576.13.07	1546.13.07	1/2	1576.N0500.07	1546.N0500.07	20x1.5	1576.20.07	1546.20.07
H 53	0.22-0.47	5.5-12.0	24	88	9	13	1576.13.12	1546.13.12	1/2	1576.N0500.12	1546.N0500.12	20x1.5	1576.20.12	1546.20.12
	0.20-0.43	5.0-11.0	27	102	10	16	1576.16.11	1546.16.11						
	0.33-0.55	8.5-14.0	27	102	10	16	1576.16.14	1546.16.14						
I S														

Lock Nuts Provided with Cable Grips



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Ingress Protection (IP) Ratings List of Protection Classes

IP Protection Classes to DIN 40 050 Sheet 1

Up to 1000 VAC and 1500 VDC (UTE standard C 200 10)

IP ratings consist of a two digit number explained below:

The two digets correspond to the description by DIN 40 050 sheet 1, IEC 144 and 525 as well as UTE C 200 10.

1st Digit Degree of Protection Against Touching and Foreign Matter

IP Specifications

- 0 No protection.
- 1 Protection against penetration by sol id foreign matters larger than 50 mm (accidental touching by hand).
- 2 Protection against penetration by sol id foreign matters larger than 12 mm (touching with fingers).
- Protection against penetration by sol id З foreign matters larger than 2.5 mm (touching with tool s, wires larger than 2.5 mm).
- 4 Protection against sol id foreign matters larger than 1 mm (touching with tools, wires larger than 1 mm).
- Complete protection from being touched. 5 Protection from harmful dust deposits dust penetration is not completely prevented.
- Complete protection from being touched. 6 Protection against penetration by dust.

2nd Digit

Degree of Protection Against Water

- **IP** Specifications
- 0 No protection.
- 1 Protection against vertically dripping water.
- Protection against drip water falling at 2 an angle of up to 15 degrees.
- Protection against spray water falling at 3 an angle of up to 60 degrees.
- 4 Protection against spray water from all directions.
- 5 Protection against water jets from all directions
- 6 Protection against temporary flooding, e.g., by rough sea.
- 7 Protection when submersed in water at specified pressure and unspecified duration.
- 8 Protection when submersed in water at el evated pressure and unspecified time.

Use and Appl ication of Nyl on Cabl e Grips

- 1. The use of synthetic Cable Grips is almost unlimited within the electrical and electronics industry. Installations where cables must be led safely through a wall of an enclosure will be specified with cable grips. Synthetic Cabl e grips are specified to:
 - Secure the cable to the enclosure's wall to provide excellent pull-out resistance.
 - Seal and protect the inside of the enclosure from the unwanted affects of the environment. These contaminants may be water, gas, chemical s vapors, or fumes
 - Reduce material cost due to use of lighter, less expensive materials, as well as, eliminating the need for running conduit.

- 2. Some of the typical applications using cable grips are:
 - Machinerv
 - Process equipment engineering
 - Apparatus and appl iance construction Aircraft and automotive engineering

 - Locomotive engineering
 - El evator engineering • Plant engineering
 - Chemical and pharmaceutical industries
 - Refineries
 - Nucl ear research institutions
 - Process automation and process engineering
 - Indoor and outdoor electrical installations

 - Switchgear and distribution construction equipment for military purposes municipal and utility type applications, such as power, el ectricity and gas works



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