

Aluminum and Steel Liquidtight Strain Relief Cord and Cable Connectors

NEC/CEC — Suitable for use in:
Class I, Division 2
Class II, Division 1 and 2
Class III,
NEMA 3R

Application

- Provide a liquidtight and strain relief termination for flexible type neoprene, hypalon, and PVC jacketed power or control cord and cable.
- For use in wet or dry locations sealing electrical connections against dust and dirt, oil, water or other atmosphere containing moisture.

Features

- Available in straight or 90°, aluminum or steel construction to meet the requirements of rugged service on all types of equipment and in all non-hazardous areas.
- Color coded identification label clearly states the catalog number and minimum-maximum cable diameter range for which the connector is designed.
- Neoprene sealing grommet firmly but safely grips cable jacket providing strain relief while protecting internal wiring connections against external tension on cable or cord.
- Steel or Teflon® washer reduces friction between grommet and connector cap providing even pressure distribution, eliminating leakage resulting from grommet distortion.
- Large aluminum connectors 1-1/2" thru 4" and all steel connectors are constructed with hex head cap.
- For particularly harsh applications, wire mesh strain reliefs may be used with cord and cable connectors.
- CG Series in aluminum construction is available in straight type from 1/4" thru 4", 90° type from 3/8" thru 1-1/4".
- CG Series in steel construction is available in straight type from 1/4" thru 2" and 90° type from 3/8" thru 1-1/4".
- Silicone free.

Standard Materials

- Aluminum connectors
 - Straight body: aluminum
 - 90° body: cast aluminum
 - Cap: copperfree (4/10 of 1% or less) aluminum
 - Sealing grommet: neoprene
 - Washer: steel or Teflon®
 - Wire mesh strain relief: stainless steel
 - Cap on wire mesh: copperfree (4/10 of 1% or less) aluminum
- Steel connectors
 - Straight body: machined steel
 - 90° body: malleable iron
 - Cap: machined steel
 - Sealing grommet: neoprene
 - Washer: steel or Teflon®
 - Wire mesh strain relief: stainless steel
 - Cap on wire mesh: steel, zinc plate

Options

- PVC coating available on select connectors. Add suffix -PVC to catalog number.

NEC/CEC Certifications and Compliances

- UL Standard: 514B
- UL Listed: E14817
- CSA Standard: C22.2 No. 18.3
- CSA Certified: 065178

Related Products

- Locknuts are available, refer to *Commercial Fittings*

① Teflon is a registered trademark of E.I. DuPont de Nemours and Co.

Aluminum



Straight



90°

Steel



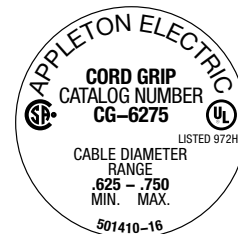
Straight



90°



Wire Mesh Strain Relief for Cord Connectors



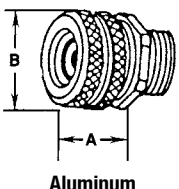
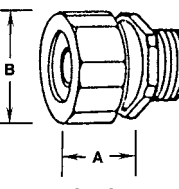
Color coded label

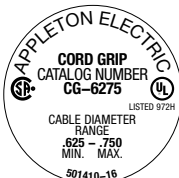
Aluminum and Steel Liquidtight Strain Relief Cord and Cable Connectors

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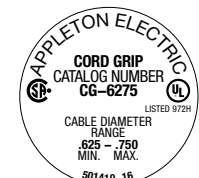
Appleton®

COMMERCIAL AND INDUSTRIAL FITTINGS: CORD AND TRAY CABLE CONNECTORS

	Cable Range (Inches)	Color Coded Label	Dimensions — mm (in)		Weight Per 100 — kg (lb)		Catalog Number	
			A	B	Aluminum	Steel	Aluminum	Steel
	1/4 Inch Hubs							
	0.060—0.156	Purple/Pink	22.4 (0.88)	19.1 (0.75)	—	—	CG-0625 ②	CG-0625S ②
	0.156—0.250	Orange/Gray	22.4 (0.88)	19.1 (0.75)	1.68 (3.70)	4.08 (9.00)	CG-1525 ②	CG-1525S ②
	3/8 Inch Hubs							
	0.125—0.187	Red	20.6 (0.81)	23.9 (0.94)	2.54 (5.60)	6.71 (14.80)	CG-1238 ⑤	CG-1238S ⑤
	0.187—0.312	Brown	20.6 (0.81)	23.9 (0.94)	2.27 (5.00)	5.99 (13.20)	CG-1838	CG-1838S
	0.312—0.437	Yellow	20.6 (0.81)	23.9 (0.94)	2.54 (5.60)	6.71 (14.80)	CG-3138	CG-3138S
	1/2 Inch Hubs ④							
	0.125—0.187	Red	20.6 (0.81)	23.9 (0.94)	2.72 (6.00)	7.08 (15.60)	CG-1250 ⑤	CG-1250S ⑤
	0.187—0.312	Brown	20.6 (0.81)	23.9 (0.94)	2.72 (6.00)	7.08 (15.60)	CG-1850	CG-1850S
	0.312—0.437	Yellow	20.6 (0.81)	23.9 (0.94)	2.72 (6.00)	7.08 (15.60)	CG-3150	CG-3150S
	0.375—0.500	Purple	20.6 (0.81)	31.8 (1.25)	3.63 (8.00)	9.43 (20.80)	CG-3750	CG-3750S
	0.500—0.625	Pink	20.6 (0.81)	31.8 (1.25)	3.63 (8.00)	9.43 (20.80)	CG-5050	CG-5050S
	0.625—0.750	Orange	20.6 (0.81)	31.8 (1.25)	3.63 (8.00)	9.43 (20.80)	CG6250 ①	CG-6250S ①
	3/4 Inch Hubs ④							
	0.187—0.250	Blue	22.4 (0.88)	31.8 (1.25)	4.54 (10.00)	11.79 (26.00)	CG-1275	CG-1275S
	0.250—0.375	Green	22.4 (0.88)	31.8 (1.25)	4.54 (10.00)	11.79 (26.00)	CG-2575	CG-2575S
	0.375—0.500	Purple	22.4 (0.88)	31.8 (1.25)	4.54 (10.00)	11.79 (26.00)	CG-3775	CG-3775S
	0.500—0.625	Pink	22.4 (0.88)	31.8 (1.25)	4.54 (10.00)	11.79 (26.00)	CG-5075	CG-5075S
	0.625—0.750	Orange	22.4 (0.88)	35.1 (1.38)	4.54 (10.00)	11.79 (26.00)	CG-6275	CG-6275S
	0.750—0.875	Gray	22.4 (0.88)	35.1 (1.38)	4.54 (10.00)	11.79 (26.00)	CG-7575 ①	CG-7575S ①
	1 Inch Hubs ④							
	0.375—0.500	Purple	23.9 (0.94)	35.1 (1.38)	6.80 (15.00)	17.69 (39.00)	CG-37100	CG-37100S
	0.500—0.625	Pink	23.9 (0.94)	35.1 (1.38)	6.80 (15.00)	17.69 (39.00)	CG-50100	CG-50100S
	0.625—0.750	Orange	23.9 (0.94)	35.1 (1.38)	6.80 (15.00)	17.69 (39.00)	CG-62100	CG-62100S
	0.750—0.875	Gray	23.9 (0.94)	44.5 (1.75)	6.80 (15.00)	17.69 (39.00)	CG-75100	CG-75100S
	0.875—1.000	Red	23.9 (0.94)	44.5 (1.75)	6.80 (15.00)	17.69 (39.00)	CG-87100	CG-87100S
	1.000—1.125	Blue	23.9 (0.94)	44.5 (1.75)	6.80 (15.00)	17.69 (39.00)	CG-100100 ①	CG-100100S ①
	1-1/4 Inch Hubs ④							
	0.750—0.875	Gray	26.9 (1.06)	44.5 (1.75)	10.43 (23.00)	27.22 (60.00)	CG-75125	CG-75125S
	0.875—1.000	Red	26.9 (1.06)	44.5 (1.75)	11.34 (25.00)	29.48 (65.00)	CG-87125	CG-87125S
	1.000—1.125	Blue	26.9 (1.06)	54.1 (2.13)	11.34 (25.00)	29.48 (65.00)	CG-100125	CG-100125S
	1.125—1.250	Brown	26.9 (1.06)	54.1 (2.13)	11.34 (25.00)	29.48 (65.00)	CG-112125	CG-112125S
	1.250—1.375	Green	26.9 (1.06)	54.1 (2.13)	9.98 (22.00)	25.85 (57.00)	CG-125125 ①	CG-125125S ①
	1.375—1.500	Yellow	26.9 (1.06)	54.1 (2.13)	9.07 (20.00)	23.59 (52.00)	CG-137125 ①	CG-137125S ①
	1-1/2 Inch Hubs							
	1.156—1.312	—	49.3 (1.94)	55.6 (2.19)	14.11 (31.10)	41.73 (92.00)	CG-115150	CG-115150S
	1.281—1.531	—	66.8 (2.63)	65.0 (2.56)	27.76 (61.20)	72.57 (160.00)	CG-128150 ③	CG-128150S
	2 Inch Hubs							
	1.531—1.780	—	62.0 (2.44)	76.2 (3.00)	43.09 (95.00)	104.33 (230.00)	CG-153200 ②	CG-153200S
	1.650—2.000	—	62.0 (2.44)	81.0 (3.19)	45.36 (100.00)	—	CG-165200 ③	—
	2-1/2 Inch Hubs							
	2.000—2.343	—	77.7 (3.06)	87.4 (3.44)	64.09 (141.30)	—	CG-200250 ③	—
	2.250—2.500	—	77.7 (3.06)	93.7 (3.69)	64.36 (141.90)	—	CG-225250 ③	—
	3 Inch Hubs							
	2.500—2.843	—	77.7 (3.06)	103.1 (4.06)	89.04 (196.30)	—	CG-250300 ③	—
	2.687—3.062	—	82.6 (3.25)	114.3 (4.50)	116.26 (256.30)	—	CG-268300 ③	—
	3-1/2 Inch Hubs ②							
	3.000—3.390	—	82.6 (3.25)	120.7 (4.75)	96.39 (212.50)	—	CG-300350	—
	3.281—3.515	—	82.6 (3.25)	127.0 (5.00)	102.06 (225.00)	—	CG-328350	—
	4 Inch Hubs ②							
	3.500—3.843	—	82.6 (3.25)	133.4 (5.25)	124.74 (275.00)	—	CG-350400	—
	3.750—4.000	—	82.6 (3.25)	139.7 (5.50)	133.27 (293.80)	—	CG-375400	—



Color coded label



Color coded label

- ① Remove sufficient outer covering of cord or cable to pass conductors through connector body.
- ② Not UL Listed.
- ③ Not CSA Certified.
- ④ PVC coating available on select connectors. Add suffix **-PVC** to catalog number.
- ⑤ Not UL Listed below cable O.D. 0.187"

Aluminum and Steel Liquidtight Strain Relief Cord and Cable Connectors

Replacement Glands

NEC/CEC — Suitable for use in:
Class I, Division 2
Class II, Division 1 and 2
Class III,
NEMA 3R

Not to be used with stainless steel and nickel plated aluminum CG connectors

For Use With Straight Connectors	For Use With 90° Connectors	Cable Range (Inches)	Weight Per 100 kg (lb)	Catalog Number ①
For Connectors with 3/8 Inch Hubs				
CG-1238	CG90-1238	0.125—0.187 ②	1.13 (2.50)	CGG-221 ②
CG-1838	CG90-1838	0.187—0.312	0.86 (1.90)	CGG-222
CG-3138	CG90-3138	0.312—0.437	0.59 (1.30)	CGG-223
For Connectors with 1/2 Inch Hubs				
CG-1250	—	0.125—0.187	1.13 (2.50)	CGG-221 ②
—	CG90-1250	0.187—0.250	0.86 (1.90)	CGG-271
CG-1850	—	0.187—0.312	0.86 (1.90)	CGG-222
—	CG90-2550	0.250—0.375	0.59 (1.30)	CGG-272
CG-3150	—	0.312—0.437	0.59 (1.30)	CGG-223
CG-3750	CG90-3750	0.375—0.500	0.86 (1.90)	CGG-273
CG-5050	CG90-5050	0.500—0.625	0.59 (1.30)	CGG-274
CG-6250	CG90-6250	0.625—0.750	0.45 (1.00)	CGG-275
For Connectors with 3/4 Inch Hubs				
CG-1275	—	0.187—0.250	0.86 (1.90)	CGG-271
CG-2575	—	0.250—0.375	0.59 (1.30)	CGG-272
—	CG90-2575	0.250—0.375	0.59 (1.30)	CGG-325
CG-3775	—	0.375—0.500	0.86 (1.90)	CGG-273
—	CG90-3775	0.375—0.500	0.86 (1.90)	CGG-321
CG-5075	—	0.500—0.625	0.59 (1.30)	CGG-274
—	CG90-5075	0.500—0.625	0.59 (1.30)	CGG-322
CG-6275	CG90-6275	0.625—0.750	0.45 (1.00)	CGG-323
CG-7575	CG90-7575	0.750—0.875	0.45 (1.00)	CGG-324
For Connectors with 1 Inch Hubs				
CG-37100	—	0.375—0.500	0.86 (1.90)	CGG-321
CG-50100	—	0.500—0.625	0.59 (1.30)	CGG-322
CG-62100	—	0.625—0.750	0.45 (1.00)	CGG-323
—	CG90-62100	0.625—0.750	0.45 (1.00)	CGG-374
CG-75100	CG90-75100	0.750—0.875	1.32 (2.90)	CGG-371
CG-87100	CG90-87100	0.875—1.000	1.13 (2.50)	CGG-372
CG-100100	CG90-100100	1.000—1.125	1.00 (2.20)	CGG-373
For Connectors with 1-1/4 Inch Hubs				
CG-75125	—	0.750—0.875	1.32 (2.90)	CGG-371
—	CG90-75125	0.750—0.875	1.32 (2.90)	CGG-425
CG-87125	—	0.875—1.000	1.13 (2.50)	CGG-372
—	CG90-87125	0.875—1.000	1.13 (2.50)	CGG-426
CG-100125	CG90-100125	1.000—1.125	1.00 (2.20)	CGG-421
CG-112125	CG90-112125	1.125—1.250	0.86 (1.90)	CGG-422
CG-125125	CG90-125125	1.250—1.375	0.73 (1.60)	CGG-423
CG-137125	CG90-137125	1.375—1.500	0.59 (1.30)	CGG-424

① For Steel Backed Neoprene Sealing Gaskets and Steel Gasketed Sealing Locknuts, see Commercial Fittings.

② Not UL Listed below cable O.D. 0.187"



Aluminum and Steel Liquidtight Strain Relief Cord and Cable Connectors

Aluminum Wire Mesh Strain Relief

NEC/CEC — Suitable for use in:
Class I, Division 2
Class II, Division 1 and 2
Class III,
NEMA 3R

Not to be used with stainless steel and nickel plated aluminum CG connectors

For Aluminum Cord Connectors		Dimensions— mm (in)		Weight Per 100 kg (lb)	Catalog Number
CG—Straight	CG—90°	A	B		
For Connectors with 3/8 Inch Hubs					
CG-1238	CG90-1238	23.9 (0.94)	92.20 (3.63)	2.40 (5.40)	CG-SR1
CG-1838	CG90-1838	23.9 (0.94)	111.30 (4.38)	2.40 (5.40)	CG-SR2
CG-3138	CG90-3138	23.9 (0.94)	139.70 (5.50)	2.40 (5.40)	CG-SR3
For Connectors with 1/2 Inch Hubs					
CG-1250	—	23.90 (0.94)	92.20 (3.63)	5.30 (11.70)	CG-SR1
—	CG90-1250	31.80 (1.25)	111.30 (4.38)	5.30 (11.70)	CG-SR4
CG-1850	—	23.90 (0.94)	111.30 (4.38)	5.30 (11.70)	CG-SR2
—	CG90-2550	31.80 (1.25)	139.70 (5.50)	5.30 (11.70)	CG-SR5
CG-3150	—	23.90 (0.94)	139.70 (5.50)	5.30 (11.70)	CG-SR3
CG-3750	CG90-3750	31.80 (1.25)	155.70 (6.13)	5.30 (11.70)	CG-SR6
CG-5050	CG90-5050	31.80 (1.25)	174.80 (6.88)	5.30 (11.70)	CG-SR7
CG-6250	CG90-6250	31.80 (1.25)	238.30 (9.38)	5.30 (11.70)	CG-SR8
For Connectors with 3/4 Inch Hubs					
CG-1275	—	31.80 (1.25)	111.30 (4.38)	7.30 (16.10)	CG-SR4
CG-2575	—	31.80 (1.25)	139.70 (5.50)	7.30 (16.10)	CG-SR5
—	CG90-2575	35.10 (1.38)	104.90 (4.13)	7.30 (16.10)	CG-SR9
CG-3775	—	31.80 (1.25)	155.70 (6.13)	7.30 (16.10)	CG-SR6
—	CG90-3775	35.10 (1.38)	139.70 (5.50)	7.30 (16.10)	CG-SR10
CG-5075	—	31.80 (1.25)	174.80 (6.88)	7.30 (16.10)	CG-SR7
—	CG90-5075	35.10 (1.38)	162.10 (6.38)	7.30 (16.10)	CG-SR11
CG-6275	CG90-6275	35.10 (1.38)	212.90 (8.38)	7.30 (16.10)	CG-SR12
CG-7575	CG90-7575	35.10 (1.38)	231.90 (9.13)	7.30 (16.10)	CG-SR13
For Connectors with 1 Inch Hubs					
CG-37100	—	35.10 (1.38)	139.70 (5.50)	8.50 (18.70)	CG-SR10
CG-50100	—	35.10 (1.38)	162.10 (6.38)	8.50 (18.70)	CG-SR11
CG-62100	—	35.10 (1.38)	212.90 (8.38)	8.50 (18.70)	CG-SR12
—	CG90-62100	44.50 (1.75)	230.10 (9.06)	8.50 (18.70)	CG-SR14
CG-75100	CG90-75100	44.50 (1.75)	230.10 (9.06)	8.50 (18.70)	CG-SR15
CG-87100	CG90-87100	44.50 (1.75)	201.70 (7.94)	8.50 (18.70)	CG-SR16
CG-100100	CG90-100100	44.50 (1.75)	201.70 (7.94)	8.50 (18.70)	CG-SR17
For Connectors with 1-1/4 Inch Hubs					
CG-75125	—	44.50 (1.75)	230.10 (9.06)	9.70 (21.40)	CG-SR15
—	CG90-75125	54.10 (2.13)	227.10 (8.94)	9.70 (21.40)	CG-SR18
CG-87125	—	44.50 (1.75)	201.70 (7.94)	9.70 (21.40)	CG-SR16
—	CG90-87125	54.10 (2.13)	201.70 (7.94)	9.70 (21.40)	CG-SR19
CG-100125	CG90-100125	54.10 (2.13)	220.70 (8.69)	9.70 (21.40)	CG-SR20
CG-112125	CG90-112125	54.10 (2.13)	236.50 (9.31)	9.70 (21.40)	CG-SR21
CG-125125	CG90-125125	54.10 (2.13)	293.60 (11.56)	9.70 (21.40)	CG-SR22
CG-137125	CG90-137125	54.10 (2.13)	274.60 (10.81)	9.70 (21.40)	CG-SR23

Diagram illustrating the dimensions A and B for the connectors. Dimension A is the width of the connector, and Dimension B is the length of the braided cable section.

