

Cord & cable connectors

CG series color-coded cord grips

Applications:

CG series color-coded grips with neoprene bushings are for use with portable cords, including S, SO, STO, ST, SJ, SJT, SJTO and SVO.

CG Cord Grips are installed to:

- Provide a means for passing a cord into an enclosure
- Form a watertight seal for cord
- Provide pull-out protection for cord, ensuring a secure connection

Features:

- Neoprene bushings are color-coded by cable diameter for quick and easy identification of proper cord grip
- Rugged construction protects cord from damage
- Compact design permits close spacing of fittings on panel applications
- Tightening one nut creates watertight seal
- Male tapered thread NPT
- Straight cord grips available in steel or aluminum; 45° and 90° cord grips available in malleable iron

Certifications and compliances:

- UL Standard 514B
- UL File No. E-23223
- CSA Standard C22.2 No. 18
- Suitable for NEMA 4 enclosures and other wet locations
- Suitable for use in Class I, Division 2 hazardous locations when installed in accordance with NEC 501.10(B)(2)



Standard materials:

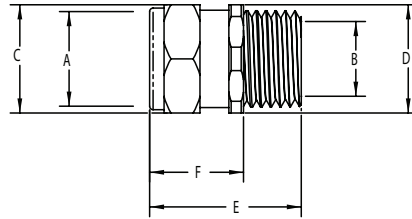
- Body – straight – 1/2" through 1 1/2": steel; 1/2" through 1": aluminum
45° – 1/2" through 1": malleable iron
90° – 1/2" through 1": malleable iron
- Nut – steel or aluminum
- Bushing – neoprene

Standard finishes:

- Body (steel or malleable Iron) – electrogalvanized
- Body (aluminum) – natural
- Nut (steel) – electrogalvanized
- Nut (aluminum) – natural

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Straight connectors

Straight connector dimensions (in inches):

Cord & cable

Cat. # Steel	Cat. # Aluminum	Size	Color	Cable range min.	Cable range max.	Unit qty.	Wt. lbs. per 100 ⓧ
CG50 250	CG50 250SA	1/2"	Red	0.15	0.25	25	10
CG50 350	CG50 350SA	1/2"	White	0.25	0.35	25	10
CG50 450	CG50 450SA	1/2"	Blue	0.35	0.45	25	10
CG50 560	CG50 560SA	1/2"	Green	0.45	0.56	25	10
CG50 650	CG50 650SA	1/2"	Brown	0.55	0.65	25	10
CG75 250	CG75 250SA	3/4"	Red	0.15	0.25	10	14
CG75 350	CG75 350SA	3/4"	White	0.25	0.35	10	14
CG75 450	CG75 450SA	3/4"	Blue	0.35	0.45	10	14
CG75 560	CG75 560SA	3/4"	Green	0.45	0.56	10	14
CG75 650	CG75 650SA	3/4"	Brown	0.55	0.65	10	14
CG75 750	CG75 750SA	3/4"	Orange	0.65	0.75	10	14
CG75 850	CG75 850SA	3/4"	Purple	0.75	0.85	10	14
CG100 560	CG100 560SA	1"	Green	0.45	0.56	5	20
CG100 650	CG100 650SA	1"	Brown	0.55	0.65	5	20
CG100 750	CG100 750SA	1"	Orange	0.65	0.75	5	20
CG100 850	CG100 850SA	1"	Purple	0.75	0.85	5	20
CG100 950	CG100 950SA	1"	Gray	0.85	0.95	5	20
CG100 1050	CG100 1050SA	1"	Black	0.95	1.05	5	20
CG125 850		1 1/4"	Purple	0.75	0.85	5	40
CG125 950		1 1/4"	Gray	0.85	0.95	5	40
CG125 1050		1 1/4"	Black	0.95	1.05	5	40
CG125 1150		1 1/4"	Orange	1.05	1.15	5	40
CG125 1250		1 1/4"	Red	1.15	1.25	5	40
CG125 1375		1 1/4"	White	1.25	1.375	5	40
CG150 1050		1 1/2"	Black	0.95	1.05	2	70
CG150 1150		1 1/2"	Orange	1.05	1.15	2	70
CG150 1250		1 1/2"	Red	1.15	1.25	2	70
CG150 1375		1 1/2"	White	1.25	1.375	2	70

A		B	C	D	E	F
Cable ranges		Max. cable	Cross corner	Hex body	Overall length	Exposed length
Min.	Max.					
0.150	0.250	0.640	1.070	0.975	1 ⁵ / ₁₆	1 ³ / ₁₆
0.250	0.350	0.640	1.070	0.975	1 ⁵ / ₁₆	1 ³ / ₁₆
0.350	0.450	0.640	1.070	0.975	1 ⁵ / ₁₆	1 ³ / ₁₆
0.450	0.560	0.640	1.070	0.975	1 ⁵ / ₁₆	1 ³ / ₁₆
0.560	0.650	0.640	1.070	0.975	1 ⁵ / ₁₆	1 ³ / ₁₆
0.150	0.250	0.687	1.070	1.220	1 ⁵ / ₁₆	1 ³ / ₁₆
0.250	0.350	0.687	1.070	1.220	1 ⁵ / ₁₆	1 ³ / ₁₆
0.350	0.450	0.687	1.070	1.220	1 ⁵ / ₁₆	1 ³ / ₁₆
0.450	0.560	0.687	1.070	1.220	1 ⁵ / ₁₆	1 ³ / ₁₆
0.560	0.650	0.687	1.070	1.220	1 ⁵ / ₁₆	1 ³ / ₁₆
0.650	0.750	0.845	1.330	1.220	1 ⁵ / ₁₆	1 ¹ / ₃₂
0.750	0.850	0.845	1.330	1.220	1 ⁵ / ₁₆	1 ¹ / ₃₂
0.450	0.560	0.937	1.330	1.500	1 ³ / ₄	1 ¹ / ₈
0.560	0.650	0.937	1.330	1.500	1 ³ / ₄	1 ¹ / ₈
0.650	0.750	0.937	1.330	1.500	1 ³ / ₄	1 ¹ / ₈
0.750	0.850	0.937	1.330	1.500	1 ³ / ₄	1 ¹ / ₈
0.850	0.950	1.050	1.625	1.500	1 ⁷ / ₈	1 ³ / ₁₆
0.950	1.050	1.050	1.625	1.500	1 ⁷ / ₈	1 ³ / ₁₆
0.750	0.850	1.187	1.625	1.900	1 ¹⁵ / ₁₆	1 ¹ / ₄
0.850	0.950	1.187	1.625	1.900	1 ¹⁵ / ₁₆	1 ¹ / ₄
0.950	1.050	1.375	2.032	1.900	1 ¹⁵ / ₁₆	1 ¹ / ₄
1.050	1.150	1.375	2.032	1.900	1 ¹⁵ / ₁₆	1 ¹ / ₄
1.150	1.250	1.375	2.032	1.900	1 ¹⁵ / ₁₆	1 ¹ / ₄
1.250	1.375	1.375	2.032	1.900	1 ¹⁵ / ₁₆	1 ¹ / ₄
0.950	1.050	1.375	2.032	2.280	2	1 ⁵ / ₁₆
1.050	1.150	1.375	2.032	2.280	2	1 ⁵ / ₁₆
1.150	1.250	1.375	2.032	2.280	2	1 ⁵ / ₁₆
1.250	1.375	1.375	2.032	2.280	2	1 ⁵ / ₁₆

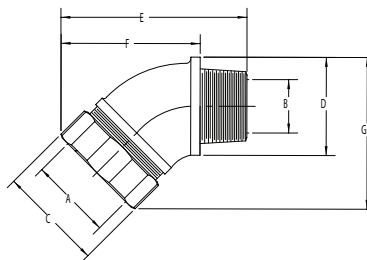
ⓧ Wt. lbs. per 100 is for steel connectors only.

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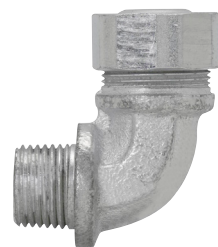


45° connectors

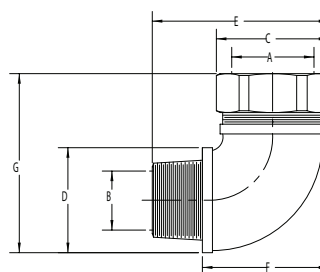


45° connector dimensions (in inches):

Cat. # Steel	Size	Color	Cable range min.	Cable range max.	Unit qty.	Wt. lbs. per 100	A	B	C	D	E	F	G	
							Cable ranges		Max. cable	Cross corner	Hex body	Overall length	Exposed length	Width
							Min.	Max.						
CG5045 250	1/2"	Red	0.15	0.25	10	24	0.150	0.250	18/32	13/16	13/16	23/32	125/32	17/8
CG5045 350	1/2"	White	0.25	0.35	10	24	0.250	0.350	18/32	13/16	13/16	23/32	125/32	17/8
CG5045 450	1/2"	Blue	0.35	0.45	10	24	0.350	0.450	18/32	13/16	13/16	23/32	125/32	17/8
CG5045 560	1/2"	Green	0.45	0.56	10	24	0.450	0.560	18/32	13/16	13/16	23/32	125/32	17/8
CG5045 650	1/2"	Brown	0.55	0.65	10	24	0.560	0.650	18/32	13/16	13/16	23/32	125/32	17/8
CG7545 250	3/4"	Red	0.15	0.25	10	36	0.150	0.250	13/16	17/16	111/32	217/32	129/32	2
CG7545 350	3/4"	White	0.25	0.35	10	36	0.250	0.350	13/16	17/16	111/32	217/32	129/32	2
CG7545 450	3/4"	Blue	0.35	0.45	10	36	0.350	0.450	13/16	17/16	111/32	217/32	129/32	2
CG7545 560	3/4"	Green	0.45	0.56	10	36	0.450	0.560	13/16	17/16	111/32	217/32	129/32	2
CG7545 650	3/4"	Brown	0.55	0.65	10	36	0.560	0.650	13/16	17/16	111/32	217/32	129/32	2
CG7545 750	3/4"	Orange	0.65	0.75	10	36	0.650	0.750	13/16	17/16	111/32	217/16	129/32	2
CG7545 850	3/4"	Purple	0.75	0.85	10	36	0.750	0.850	13/16	17/16	111/32	217/16	129/32	2
CG10045 560	1"	Green	0.45	0.56	5	68	0.450	0.560	31/32	13/4	111/16	229/32	211/32	215/32
CG10045 650	1"	Brown	0.55	0.65	5	68	0.560	0.650	31/32	13/4	111/16	229/32	211/32	215/32
CG10045 750	1"	Yellow	0.65	0.75	5	68	0.650	0.750	31/32	13/4	111/16	229/32	211/32	215/32
CG10045 850	1"	Purple	0.75	0.85	5	68	0.750	0.850	31/32	13/4	111/16	229/32	211/32	215/32
CG10045 950	1"	Gray	0.85	0.95	5	68	0.850	0.950	31/32	13/4	111/16	229/32	211/32	215/32
CG10045 1050	1"	Black	0.95	1.05	5	68	0.950	1.050	31/32	13/4	111/16	229/32	211/32	215/32



90° connectors



90° connector dimensions (in inches):

Cat. # Steel	Size	Color	Cable range min.	Cable range max.	Unit qty.	Wt. lbs. per 100	A	B	C	D	E	F	G	
							Cable ranges		Max. cable	Cross corner	Hex body	Overall length	Exposed length	Width
							Min.	Max.						
CG5090 250	1/2"	Red	0.15	0.25	10	26	0.150	0.250	19/32	13/16	13/16	113/16	13/16	21/4
CG5090 350	1/2"	White	0.25	0.35	10	26	0.250	0.350	19/32	13/16	13/16	119/16	13/16	21/4
CG5090 450	1/2"	Blue	0.35	0.45	10	26	0.350	0.450	19/32	13/16	13/16	119/16	13/16	21/4
CG5090 560	1/2"	Green	0.45	0.56	10	26	0.450	0.560	19/32	13/16	13/16	119/16	13/16	21/4
CG5090 650	1/2"	Brown	0.55	0.65	10	26	0.560	0.650	19/32	13/16	13/16	119/16	13/16	21/4
CG7590 250	3/4"	Red	0.15	0.25	10	48	0.150	0.250	13/16	17/16	111/32	271/16	121/32	217/32
CG7590 350	3/4"	White	0.25	0.35	10	48	0.250	0.350	13/16	17/16	111/32	271/16	121/32	217/32
CG7590 450	3/4"	Blue	0.35	0.45	10	48	0.350	0.450	13/16	17/16	111/32	271/16	121/32	217/32
CG7590 560	3/4"	Green	0.45	0.56	10	48	0.450	0.560	13/16	17/16	111/32	271/16	121/32	217/32
CG7590 650	3/4"	Brown	0.55	0.65	10	48	0.560	0.650	13/16	17/16	111/32	271/16	121/32	217/32
CG7590 750	3/4"	Yellow	0.65	0.75	10	48	0.650	0.750	13/16	17/16	111/32	271/16	121/32	217/16
CG7590 850	3/4"	Purple	0.75	0.85	10	48	0.750	0.850	13/16	17/16	111/32	271/16	121/32	217/16
CG10090 560	1"	Green	0.45	0.56	5	68	0.450	0.560	31/32	13/4	111/16	271/4	21/32	229/32
CG10090 650	1"	Brown	0.55	0.65	5	68	0.560	0.650	31/32	13/4	111/16	271/4	21/32	229/32
CG10090 750	1"	Orange	0.65	0.75	5	68	0.650	0.750	31/32	13/4	111/16	271/4	21/32	229/32
CG10090 850	1"	Purple	0.75	0.85	5	68	0.750	0.850	31/32	13/4	111/16	271/4	21/32	229/32
CG10090 950	1"	Gray	0.85	0.95	5	68	0.850	0.950	31/32	13/4	111/16	271/4	21/32	3
CG10090 1050	1"	Black	0.95	1.05	5	68	0.950	1.050	31/32	13/4	111/16	271/4	21/32	3

Cord & cable connectors

NCG non-metallic cord grips

Applications:

For use with portable cord, NCG Series Watertight Cord Grips terminate and protect conductors from mechanical damage due to vibration and movement. A neoprene bushing seals out oils, coolants, water, dust and other abusive agents. NCG Cord Grips may be used with types S, SO, STO, SJ, SJT, SJTO and SVO portable cords.

Typical applications include the termination of wiring for:

- Machine tools
- Motors
- Transformers
- Food processing equipment
- Robotics
- Air conditioning units
- Illuminated signs
- Terminal boxes
- Control cabinets

Features:

- Available in 3/8" to 1" trade sizes
- Neoprene bushings cover a large cable range, reducing the number of different fittings required
- Polyamide non-metallic construction stands up to most corrosive environments
- Polyamide locknut available; order separately
- UL Listed and cUL third party certified
- Raintight and watertight construction for outdoor use
- Tightening one nut creates watertight seal

Certifications and compliances:

- UL File No. E-23223
- UL Standard 514B
- cUL to CSA Standard C22.2 No. 18
- IP68
- NEMA 4X Watertight
- Zone 2, Division 2 use per Code



Standard materials:

- Cable gland body and nut – polyamide 6
- Bushing – neoprene
- Locknut – polyamide 6

Cat. #	Size	Cable range in inches (mm)
NCG38 35	3/8"	0.10 - 0.35 (2.5 - 8mm)
NCG50 50	1/2"	0.20 - 0.50 (5 - 12mm)
NCG75 75	3/4"	0.35 - 0.71 (9 - 18mm)
NCG100 100	1"	0.55 - 1.00 (14 - 25mm)

Locknuts (Ordered Separately)

Cat. #	Size	Std. pkg.
10N	3/8"	25
11N	1/2"	25
12N	3/4"	25
13N	1"	20



Cord & cable connectors

NCGS non-metallic solar cord grips

Applications:

- Used in both commercial and residential grid-tied PV solar applications and are designed to accommodate the entry of multiple PV wires coming into a combiner or pass through box
- Provide mechanical strain relief as well as a liquidtight seal around the solar panel wires

Features:

- Multi-hole cord grip to allow for entry of multiple PV wires
- Solar cord grips offer customer flexibility by allowing the termination from one to 31 PV wires in a single connector
- Skinned over glands provide a durable, liquidtight seal around the wires
- No disassembly required for installation
- Wide range of cable acceptance sizes for customer flexibility
- Steel locknuts included
- Temperature rating: -22°F (-30°C) to 212°F (100°C) to meet the most demanding environmental conditions

Certifications and compliances:

- UL/cUL recognized
- UL File No. E-23223
- IP68
- Flammability rating: 94-V2

Standard materials and finishes:

- 6/6 nylon with TPE/Buna N sealing glands, natural



Cord & cable

Cat. #	Size	No. of holes	Hole cable dia.	Wire type	Wire size
NCGS25	3/4"	5	5mm	USE-2	12 AWG, 10 AWG
NCGS237	3/4"	3	7mm	1000V PV Cable	12 AWG, 10 AWG
NCGS39	1"	9	5mm	USE-2	12 AWG, 10 AWG
NCGS357	1"	5	7mm	1000V PV Cable	12 AWG, 10 AWG
NCGS413	1 1/4"	13	5mm	USE-2	12 AWG, 10 AWG
NCGS497	1 1/4"	9	7mm	1000V PV Cable	12 AWG, 10 AWG
NCGS478	1 1/4"	7	8mm	1000V PV Cable	12 AWG, 10 AWG, 8 AWG
NCGS521	1 1/2"	21	5mm	USE-2	12 AWG, 10 AWG
NCGS5117	1 1/2"	11	7mm	1000V PV Cable	12 AWG, 10 AWG
NCGS598	1 1/2"	9	8mm	1000V PV Cable	12 AWG, 10 AWG, 8 AWG
NCGS631	2"	31	5mm	USE-2	12 AWG, 10 AWG
NCGS6197	2"	19	7mm	1000V PV Cable	12 AWG, 10 AWG
NCGS6128	2"	12	8mm	1000V PV Cable	12 AWG, 10 AWG, 8 AWG

UL Listed.