

TECHNICAL DATA SHEET

ABB cable glands – NCG series

Nylon, general purpose cable glands



Nylon cable glands for general purpose use, OEM and industrial/commercial applications.

Certifications / Standards:

(Refer to tables for certifications details)

**Features & Benefits:**

- Low profile cable glands
- Wide cable clamping range
- Corrosion resistant

Applications:

- General purpose
- Panel building
- Light fixture and housings
- Machine building
- Suitable for cable types:
 - Non-armoured
 - Portable
 - Tray

Material:

- Halogen free nylon (PA6) construction
- Available in Black, Grey and Light Grey
- Chloroprene seals

Environmental ratings:**Working Temperature:**

- Normal use: -20 to +100°C (-4 to +212°F)
- Short term: -30 to +150°C (-22 to +302°F)

Ingress protection:

To ensure ingress protection, use suitable gasket and lock nut when required.

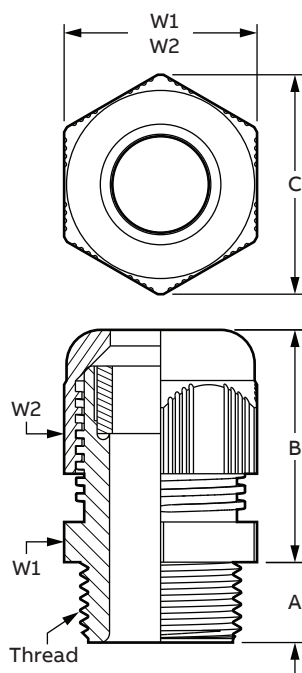
- IP66
- IP68 (5 bar 30 mins)
- NEMA 4

Chemical resistance guide:

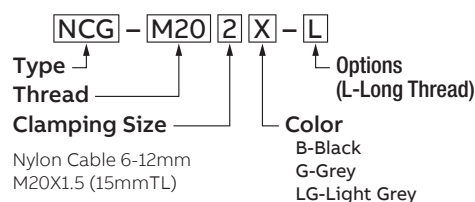
- See publication TDS000081

Conforms to:

- UL514B / CSA C22.2 No 18.3 (see table for details)
- EN 62444
- RoHS (Restriction of Hazardous Substances Directive) 2011/65/EU Incorporating 2015/863 amendment to Annex II
- WEEE (Waste Electrical & Electronic Equipment Directive) 2002/96/EC
- LVD (Low Voltage Directive) 2014/35/EU



Part number information:



Product selection								
Part no: Certifications	Thread (metric)	Cable range		Nominal dimensions				
		Min	Max	A	B	C	W1	W2
NCG-M121x (cCSAus)	M12x1.5	2.0	5.0	8.0	23.0	16.9	15.0	15.0
		(0.079)	(0.197)	(0.315)	(0.906)	(0.665)	(0.591)	(0.591)
NCG-M122x (cURus & cCSAus)	M12x1.5	3.0	6.5	8.0	23.0	16.9	15.0	15.0
		(0.118)	(0.256)	(0.315)	(0.906)	(0.665)	(0.591)	(0.591)
NCG-M161x	M16x1.5	2.0	6.0	8.0	26.5	21.9	19.0	19.0
		(0.079)	(0.236)	(0.315)	(1.043)	(0.862)	(0.748)	(0.748)
NCG-M161x-L	M16x1.5	2.0	6.0	15.0	26.5	21.9	19.0	19.0
		(0.079)	(0.236)	(0.591)	(1.043)	(0.862)	(0.748)	(0.748)
NCG-M162x (cURus)	M16x1.5	4.0	8.0	8.0	26.5	21.9	19.0	19.0
		(0.157)	(0.315)	(0.315)	(1.043)	(0.862)	(0.748)	(0.748)
NCG-M162x-L	M16x1.5	4.0	8.0	15.0	26.5	21.9	19.0	19.0
		(0.157)	(0.315)	(0.591)	(1.043)	(0.862)	(0.748)	(0.748)
NCG-M163x (cURus & cCSAus)	M16x1.5	5.0	10.0	10.0	30.0	25.0	22.0	22.0
		(0.197)	(0.394)	(0.394)	(1.181)	(0.984)	(0.866)	(0.866)
NCG-M163x-L	M16x1.5	5.0	10.0	15.0	30.0	25.0	22.0	22.0
		(0.197)	(0.394)	(0.591)	(1.181)	(0.984)	(0.866)	(0.866)
NCG-M201x (cCSAus)	M20x1.5	5.0	9.0	10.0	30.0	27.0	24.0	24.0
		(0.197)	(0.354)	(0.394)	(1.181)	(1.063)	(0.945)	(0.945)
NCG-M201x-L	M20x1.5	5.0	9.0	15.0	30.0	27.0	24.0	24.0
		(0.197)	(0.354)	(0.591)	(1.181)	(1.063)	(0.945)	(0.945)
NCG-M202x (UL & cCSAus)	M20x1.5	6.0	12.0	10.0	30.0	27.0	24.0	24.0
		(0.236)	(0.472)	(0.394)	(1.181)	(1.063)	(0.945)	(0.945)
NCG-M202x-L	M20x1.5	6.0	12.0	15.0	30.0	27.0	24.0	24.0
		(0.236)	(0.472)	(0.591)	(1.181)	(1.063)	(0.945)	(0.945)
NCG-M203x (cULus & cUSAus)	M20x1.5	10.0	14.0	10.0	33.5	31.0	27.0	27.0
		(0.394)	(0.551)	(0.394)	(1.319)	(1.22)	(1.063)	(1.063)
NCG-M203x-L	M20x1.5	10.0	14.0	15.0	33.5	31.0	27.0	27.0
		(0.394)	(0.551)	(0.591)	(1.319)	(1.22)	(1.063)	(1.063)
NCG-M251x (cCSAus)	M25x1.5	9.0	16.0	10.0	38.0	38.0	33.0	33.0
		(0.354)	(0.63)	(0.394)	(1.496)	(1.496)	(1.299)	(1.299)
NCG-M251x-L	M25x1.5	9.0	16.0	15.0	38.0	38.0	33.0	33.0
		(0.354)	(0.63)	(0.591)	(1.496)	(1.496)	(1.299)	(1.299)
NCG-M252x (UL & cCSAus)	M25x1.5	11.0	17.0	8.0	36.0	32.5	29.0	29.0
		(0.433)	(0.669)	(0.315)	(1.417)	(1.28)	(1.142)	(1.142)
NCG-M252x-L	M25x1.5	11.0	17.0	15.0	36.0	32.5	29.0	29.0
		(0.433)	(0.669)	(0.591)	(1.417)	(1.28)	(1.142)	(1.142)
NCG-M253x (UL & cCSAus)	M25x1.5	13.0	18.0	15.0	38.0	38.0	33.0	33.0
		(0.512)	(0.709)	(0.591)	(1.496)	(1.496)	(1.299)	(1.299)
NCG-M321x	M32x1.5	11.0	15.0	10.0	42.5	41.0	36.0	36.0
		(0.433)	(0.591)	(0.394)	(1.673)	(1.614)	(1.417)	(1.417)
NCG-M321x-L	M32x1.5	11.0	15.0	15.0	42.5	41.0	36.0	36.0
		(0.433)	(0.591)	(0.591)	(1.673)	(1.614)	(1.417)	(1.417)
NCG-M322x (UL & cCSAus)	M32x1.5	15.0	21.0	10.0	42.5	41.0	36.0	36.0
		(0.591)	(0.827)	(0.394)	(1.673)	(1.614)	(1.417)	(1.417)

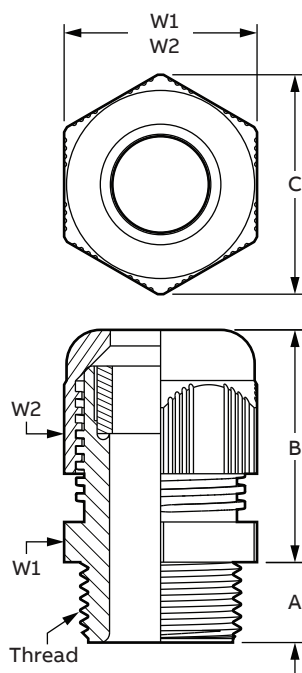
Replace the "x" of the catalog number by one of the following:

B = black (RAL 9005), G = grey (RAL 7001), LG = light grey (RAL 7035)

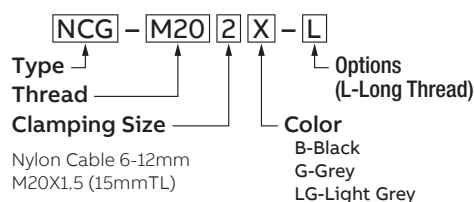
Other colors available on request.

Bold numbers are metric, parenthesis numbers are inches.

Note: Product must be installed in accordance with applicable national and local electrical codes.



Part number information:



Product selection								
Part no: Certifications	Thread (metric)	Cable range		Nominal dimensions				
		Min	Max	A	B	C	W1	W2
NCG-M322x-L	M32x1.5	15.0 (0.591)	21.0 (0.827)	15.0 (0.591)	42.5 (1.673)	41.0 (1.614)	36.0 (1.417)	36.0 (1.417)
NCG-M323x (cULus & cCSAus)	M32x1.5	18.0 (0.709)	25.0 (0.984)	15.0 (0.591)	42.0 (1.654)	47.3 (1.862)	42.0 (1.654)	42.0 (1.654)
NCG-M401x	M40x1.5	16.0 (0.63)	23.0 (0.906)	10.0 (0.394)	47.5 (1.87)	52.4 (2.063)	46.0 (1.811)	46.0 (1.811)
NCG-M401x-L	M40x1.5	16.0 (0.63)	23.0 (0.906)	18.0 (0.709)	47.5 (1.87)	52.4 (2.063)	46.0 (1.811)	46.0 (1.811)
NCG-M402x (UL & cCSAus)	M40x1.5	19.0 (0.748)	28.0 (1.102)	10.0 (0.394)	47.5 (1.87)	52.4 (2.063)	46.0 (1.811)	46.0 (1.811)
NCG-M402x-L	M40x1.5	19.0 (0.748)	28.0 (1.102)	18.0 (0.709)	47.5 (1.87)	52.4 (2.063)	46.0 (1.811)	46.0 (1.811)
NCG-M403x (cULus & cCSAus)	M40x1.5	22.0 (0.866)	32.0 (1.26)	18.0 (0.709)	52.0 (2.047)	60.0 (2.362)	53.0 (2.087)	53.0 (2.087)
NCG-M501x (cCSAus)	M50x1.5	25.0 (0.984)	31.0 (1.22)	18.0 (0.709)	53.5 (2.106)	67.8 (2.669)	60.0 (2.362)	60.0 (2.362)
NCG-M502x (cULus & cCSAus)	M50x1.5	30.0 (1.181)	38.0 (1.496)	18.0 (0.709)	53.5 (2.106)	67.8 (2.669)	60.0 (2.362)	60.0 (2.362)
NCG-M631x (CSAus)	M63x1.5	29.0 (1.142)	35.0 (1.378)	18.0 (0.709)	53.0 (2.087)	72.9 (2.87)	65.0 (2.559)	65.0 (2.559)
NCG-M632x (cULus & cCSAus)	M63x1.5	34.0 (1.339)	44.0 (1.732)	18.0 (0.709)	53.0 (2.087)	72.9 (2.87)	65.0 (2.559)	65.0 (2.559)
NCG-M751x (cULus)	M63x1.5	48.0 (1.89)	55.0 (2.165)	25.0 (0.984)	55.0 (2.165)	89.0 (3.504)	75.0 (2.953)	80.0 (3.15)

Product selection								
Part no: Certifications	Thread (NPT)	Cable range		Nominal dimensions				
		Min	Max	A	B	C	W1	W2
NCG-0381x (cCSAus)	3/8"	3.0 (0.118)	7.0 (0.276)	15.0 (0.591)	30.0 (1.181)	25.0 (0.984)	22.0 (0.866)	22.0 (0.866)
NCG-0382x (cURus & cCSAus)	3/8"	5.0 (0.197)	10.0 (0.394)	15.0 (0.591)	30.0 (1.181)	25.0 (0.984)	22.0 (0.866)	22.0 (0.866)
NCG-0501x (cCSAus)	1/2"	5.0 (0.197)	9.0 (0.354)	15.0 (0.591)	30.0 (1.181)	27.0 (1.063)	24.0 (0.945)	24.0 (0.945)
NCG-0502x (UL & cCSAus)	1/2"	6.0 (0.236)	12.0 (0.472)	15.0 (0.591)	30.0 (1.181)	27.0 (1.063)	24.0 (0.945)	24.0 (0.945)
NCG-0503x (cULus & cCSAus)	1/2"	10.0 (0.394)	14.0 (0.551)	15.0 (0.591)	33.5 (1.319)	30.9 (1.217)	27.0 (1.063)	27.0 (1.063)
NCG-0504x	1/2"	9.0 (0.354)	16.0 (0.63)	15.0 (0.591)	38.0 (1.496)	38.0 (1.496)	33.0 (1.299)	33.0 (1.299)
NCG-0505x	1/2"	13.0 (0.512)	18.0 (0.709)	15.0 (0.591)	38.0 (1.496)	38.0 (1.496)	33.0 (1.299)	33.0 (1.299)
NCG-0751x (cCSAus)	3/4"	9.0 (0.354)	16.0 (0.63)	15.0 (0.591)	38.0 (1.496)	38.0 (1.496)	33.0 (1.299)	33.0 (1.299)
NCG-0752x (UL & cCSAus)	3/4"	13.0 (0.512)	18.0 (0.709)	15.0 (0.591)	38.0 (1.496)	38.0 (1.496)	33.0 (1.299)	33.0 (1.299)
NCG-1001x (cCSAus)	1"	12.0 (0.472)	20.0 (0.787)	18.0 (0.709)	42.0 (1.654)	47.3 (1.862)	42.0 (1.654)	42.0 (1.654)
NCG-1002x (cULus & CCSAus)	1"	18.0 (0.709)	25.0 (0.984)	18.0 (0.709)	42.0 (1.654)	47.3 (1.862)	42.0 (1.654)	42.0 (1.654)

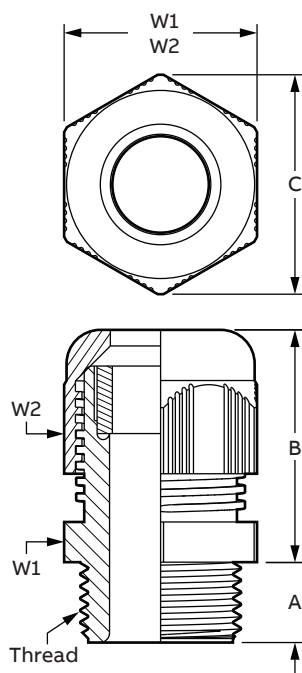
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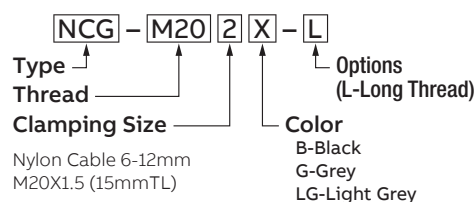
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Part number information:



Product selection								
Part no: Certifications	Thread (PG)	Cable range		Nominal dimensions				
		Min	Max	A	B	C	W1	W2
NCG-PG71x (UR)	PG07	3.0	6.5	8.0	23.0	16.9	15.0	15.0
		(0.118)	(0.256)	(0.315)	(0.906)	(0.665)	(0.591)	(0.591)
NCG-PG91x (UR)	PG09	4.0	8.0	8.0	26.5	21.9	19.0	19.0
		(0.157)	(0.315)	(0.315)	(1.043)	(0.862)	(0.748)	(0.748)
NCG-PG111x	PG11	3.0	7.0	8.0	29.0	25.0	22.0	22.0
		(0.118)	(0.276)	(0.315)	(1.142)	(0.984)	(0.866)	(0.866)
NCG-PG112x (cURus)	PG11	5.0	10.0	8.0	29.0	25.0	22.0	22.0
		(0.197)	(0.394)	(0.315)	(1.142)	(0.984)	(0.866)	(0.866)
NCG-PG131x (cURus)	PG13.5	6.0	12.0	10.0	30.0	27.0	24.0	24.0
		(0.236)	(0.472)	(0.394)	(1.181)	(1.063)	(0.945)	(0.945)
NCG-PG161x (cULus)	PG16	10.0	14.0	10.0	33.5	30.9	27.0	27.0
		(0.394)	(0.551)	(0.394)	(1.319)	(1.217)	(1.063)	(1.063)
NCG-PG211x (cULus)	PG21	13.0	18.0	11.0	37.0	38.0	33.0	33.0
		(0.512)	(0.709)	(0.433)	(1.457)	(1.496)	(1.299)	(1.299)
NCG-PG291x (cULus)	PG29	18.0	25.0	11.0	42.0	47.3	42.0	42.0
		(0.709)	(0.984)	(0.433)	(1.654)	(1.862)	(1.654)	(1.654)
NCG-PG361x (UL)	PG36	22.0	32.0	13.0	52.0	60.0	53.0	53.0
		(0.866)	(1.26)	(0.512)	(2.047)	(2.362)	(2.087)	(2.087)
NCG-PG421x (UL)	PG42	30.0	38.0	13.0	53.5	67.8	60.0	60.0
		(1.181)	(1.496)	(0.512)	(2.106)	(2.669)	(2.362)	(2.362)
NCG-PG481x (UL)	PG48	34.0	44.0	14.0	53.0	72.9	65.0	65.0
		(1.339)	(1.732)	(0.551)	(2.087)	(2.87)	(2.559)	(2.559)

Product selection								
Part no:	Thread (GAS/PF)	Cable range		Nominal dimensions				
		Min	Max	A	B	C	W1	W2
NCG-G0251x	G025	3.0	6.5	10.0	23.0	16.9	15.0	15.0
		(0.118)	(0.256)	(0.394)	(0.906)	(0.665)	(0.591)	(0.591)
NCG-G0381x	G038	5.0	10.0	11.0	30.0	25.0	22.0	22.0
		(0.197)	(0.394)	(0.433)	(1.181)	(0.984)	(0.866)	(0.866)
NCG-G0501x	G050	6.0	12.0	10.0	30.0	27.0	24.0	24.0
		(0.236)	(0.472)	(0.394)	(1.181)	(1.063)	(0.945)	(0.945)
NCG-G0501x	G050	10.0	14.0	11.0	33.5	30.9	27.0	27.0
		(0.394)	(0.551)	(0.433)	(1.319)	(1.217)	(1.063)	(1.063)
NCG-G0751x	G075	13.0	18.0	12.0	38.0	38.0	33.0	33.0
		(0.512)	(0.709)	(0.472)	(1.496)	(1.496)	(1.299)	(1.299)
NCG-G1001x	G100	18.0	25.0	13.0	42.0	47.3	42.0	42.0
		(0.709)	(0.984)	(0.512)	(1.654)	(1.862)	(1.654)	(1.654)

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