TECHNICAL DATA SHEET

ABB cable glands – RBSG series

Brass, rail specific EN45545



EN45545-2 Compliant cable gland for use in rail, rolling stock and infrastructure applications.

Certifications / Standards:

CE

Features & Benefits:

- EN 45545-2 Compliant HL3 for category R22 and R23 usage
- Robust metallic construction
- Multiple seal bushings for wide clamping range

Applications:

- General purpose rolling stock and infrastructure applications
- R22 interior locations for small components
- R23 exterior locations for small components
- Suitable for cable types:
  - Non-armoured
  - Portable
  - Tray

Material:

- All materials EN 45545-2 compliant to HL3 for category R22 and R23 use
- Nickel plated brass body and cap
- Low smoke zero halogen EPDM seals

Environmental ratings:

Working Temperature:

- Normal use: -50 to +125°C (-40 to +257°F)
- Short term: -50 to +140°C (-40 to +284°F)

Ingress protection:

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

- IP66
- IP68 (5 bar 30 mins)
- IP69

Fire

- EN 45545-2 HL3

Chemical resistance guide:

- See publication TDS000081

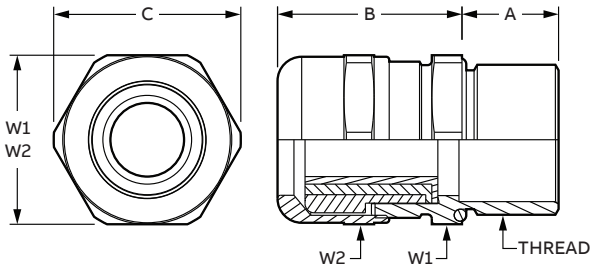
Conforms to:

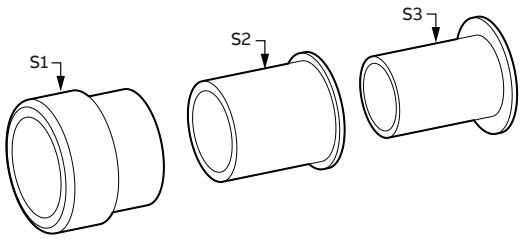
- EN 45545-2, R22 and R23, HL3
- EN 62444
- RoHS (Restriction of Hazardous Substances Directive) 2011/65/EU Incorporating 2015/863 amendment to Annex II
- WEEE (Waste Electrical & Electronic Equipment Directive) 2002/96/EC
- LVD (Low Voltage Directive) 2014/35/EU

Product selection

Part no:	Thread (metric)	Cable range		Seals ranges						Nominal dimensions				
				S1		S2		S3						
		Min	Max	Min	Max	Min	Max	Min	Max	A	B	C	W1	W2
RBSG-M201	M20x1.5	**4.0**	**12.0**	**9.0**	**12.0**	**6.0**	**9.0**	**4.0**	**6.0**	**9.0**	**27.0**	**24.5**	**22.0**	**22.0**
		(0.157)	(0.472)	(0.354)	(0.472)	(0.236)	(0.354)	(0.157)	(0.236)	(0.354)	(1.063)	(0.965)	(0.866)	(0.866)
RBSG-M202	M20x1.5	**10.0**	**16.0**	**14.5**	**16.0**	**12.0**	**14.5**	**10.0**	**12.0**	**9.0**	**30.0**	**31.0**	**28.0**	**28.0**
		(0.394)	(0.63)	(0.571)	(0.63)	(0.472)	(0.571)	(0.394)	(0.472)	(0.354)	(1.181)	(1.22)	(1.102)	(1.102)
RBSG-M251	M25x1.5	**4.0**	**12.0**	**9.0**	**12.0**	**6.0**	**9.0**	**4.0**	**6.0**	**9.0**	**27.0**	**31.0**	**28.0**	**22.0**
		(0.157)	(0.472)	(0.354)	(0.472)	(0.236)	(0.354)	(0.157)	(0.236)	(0.354)	(1.063)	(1.22)	(1.102)	(0.866)
RBSG-M252	M25x1.5	**10.0**	**18.0**	**14.5**	**18.0**	**12.0**	**14.5**	**10.0**	**12.0**	**9.0**	**30.5**	**31.0**	**28.0**	**28.0**
		(0.394)	(0.709)	(0.571)	(0.709)	(0.472)	(0.571)	(0.394)	(0.472)	(0.354)	(1.201)	(1.22)	(1.102)	(1.102)
RBSG-M321	M32x1.5	**10.0**	**18.0**	**14.5**	**18.0**	**12.0**	**14.5**	**10.0**	**12.0**	**9.0**	**30.5**	**39.0**	**35.0**	**28.0**
		(0.394)	(0.709)	(0.571)	(0.709)	(0.472)	(0.571)	(0.394)	(0.472)	(0.354)	(1.201)	(1.535)	(1.378)	(1.102)
RBSG-M322	M32x1.5	**14.0**	**24.0**	**20.0**	**24.0**	**17.0**	**20.0**	**14.0**	**17.0**	**9.0**	**33.0**	**39.0**	**35.0**	**35.0**
		(0.551)	(0.945)	(0.787)	(0.945)	(0.669)	(0.787)	(0.551)	(0.669)	(0.354)	(1.299)	(1.535)	(1.378)	(1.378)
RBSG-M323	M32x1.5	**22.0**	**28.0**	**27.0**	**28.0**	**24.0**	**27.0**	**22.0**	**24.0**	**9.0**	**41.0**	**49.5**	**45.0**	**45.0**
		(0.866)	(1.102)	(1.063)	(1.102)	(0.945)	(1.063)	(0.866)	(0.945)	(0.354)	(1.614)	(1.949)	(1.772)	(1.772)
RBSG-M401	M40x1.5	**14.0**	**24.0**	**20.0**	**24.0**	**17.0**	**20.0**	**14.0**	**17.0**	**9.0**	**33.0**	**50.0**	**45.0**	**35.0**
		(0.551)	(0.945)	(0.787)	(0.945)	(0.669)	(0.787)	(0.551)	(0.669)	(0.354)	(1.299)	(1.969)	(1.772)	(1.378)
RBSG-M402	M40x1.5	**22.0**	**32.0**	**27.0**	**32.0**	**24.0**	**27.0**	**22.0**	**24.0**	**9.0**	**40.5**	**49.5**	**45.0**	**45.0**
		(0.866)	(1.26)	(1.063)	(1.26)	(0.945)	(1.063)	(0.866)	(0.945)	(0.354)	(1.594)	(1.949)	(1.772)	(1.772)
RBSG-M501	M50x1.5	**26.0**	**35.0**	**31.0**	**35.0**	**28.0**	**31.0**	**26.0**	**28.0**	**9.0**	**43.5**	**61.0**	**55.0**	**50.0**
		(1.024)	(1.378)	(1.22)	(1.378)	(1.102)	(1.22)	(1.024)	(1.102)	(0.354)	(1.713)	(2.402)	(2.165)	(1.969)
RBSG-M502	M50x1.5	**35.0**	**44.0**	**41.0**	**44.0**	**38.0**	**41.0**	**35.0**	**38.0**	**9.0**	**43.0**	**70.0**	**64.0**	**64.0**
		(1.378)	(1.732)	(1.614)	(1.732)	(1.496)	(1.614)	(1.378)	(1.496)	(0.354)	(1.693)	(2.756)	(2.52)	(2.52)

Bold numbers are metric, parenthesis numbers are inches.
Note: Product must be installed in accordance with applicable national and local electrical codes.





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