TECHNICAL DATA SHEET

ABB cable glands – FSEM series

EMC NSF approved food and beverage cable glands



Stainless steel EMC cable glands, specifically designed for food and beverage applications, with internal grounding mechanism to provide earth continuity for shielded and screened cables, where required.

Certifications / Standards:

Features & Benefits:

- Smooth hygienic external casing
- One piece, fully enclosed
- Internal continuity contacts
- Corrosion resistant
- Extended radial contact with the shielding for improved EMI protection

Applications:

- Food and beverage applications, including;
  - Splash zone and wash down areas
  - Packaging and transfer areas
- Other hygienic applications, including;
  - Medical equipment - non contact
  - Pharmaceutical, packaging and processing
- Suitable for cable types:
  - Non-armoured
  - Portable
  - Tray
  - Tape or foil shielded cables
  - Braid screened cables
  - Coaxial cable types

Material:

- Stainless Steel construction
- FDA Compliant EPDM Seals

Environmental ratings:

Working Temperature:

- Normal use: -20°C to +100°C (-8°F to 212°F)
- Short term: -40°C to +150°C (-40°F to 302°F)

Ingress protection:

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

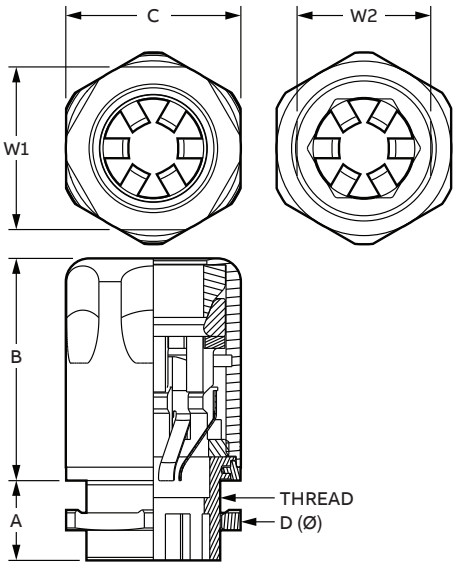
- IP66
- IP67
- IP68 (5 bar 30 mins)
- IP69 (Steam Cleaning)

Chemical resistance guide:

- See publication TDS000081

Conforms to:

- NSF - 169-2012
- UL514B / CSA C22.2 No 18.3 (see table for details)
- 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		Nominal dimensions					
		Min	Max	A	B	C	D	W1	W2
FSEM-M161	M16x1.5	**5.0**	**10.0**	**7.0**	**28.1**	**20.2**	**21.0**	**18.0**	**14.0**
		(0.197)	(0.394)	(0.276)	(1.106)	(0.795)	(0.827)	(0.709)	(0.551)
FSEM-M201	M20x1.5	**6.0**	**12.0**	**10.0**	**32.7**	**24.1**	**26.5**	**22.0**	**18.0**
		(0.236)	(0.472)	(0.394)	(1.287)	(0.949)	(1.043)	(0.866)	(0.709)
FSEM-M251	M25x1.5	**12.0**	**17.0**	**14.0**	**37.9**	**30.1**	**33.0**	**28.0**	**23.0**
		(0.472)	(0.669)	(0.551)	(1.492)	(1.185)	(1.299)	(1.102)	(0.906)

Product selection

Part no:	Thread (NPT)	Cable range		Nominal dimensions					
		Min	Max	A	B	C	D	W1	W2
FSEM-0381	3/8"	**5.0**	**10.0**	**15.26**	**28.6**	**24.1**	**26.5**	**22.0**	**14.0**
		(0.197)	(0.394)	(0.601)	(1.126)	(0.949)	(1.043)	(0.866)	(0.551)
FSEM-0501	1/2"	**6.0**	**12.0**	**19.85**	**33.2**	**30.1**	**26.5**	**28.0**	**18.0**
		(0.236)	(0.472)	(0.781)	(1.307)	(1.185)	(1.043)	(1.102)	(0.709)
FSEM-0751	3/4"	**12.0**	**17.0**	**20.15**	**39.1**	**38.0**	**39.0**	**35.0**	**23.0**
		(0.472)	(0.669)	(0.793)	(1.539)	(1.496)	(1.535)	(1.378)	(0.906)

Bold numbers are metric, parenthesis numbers are inches.
No lock nut provided with the NPT products.
Note: Product must be installed in accordance with applicable national and local electrical codes.

ABB Inc.
Electrification products
Memphis, Tennessee
USA

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Inc. does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB Inc.
Copyright© 2018 ABB Inc.
All rights reserved.

abb.com