




TYPE APPROVAL CERTIFICATE
No. ELE096513XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	WIRE MESH CABLE TRAYS
<i>Type</i>	GRM 35; GRM 55; GRM T55; GRM 2T55; GRM 105
<i>Applicant</i>	OBO BETTERMANN GMBH & CO.KG HUEINGSER RING 52 58710 MENDEN GERMANY
<i>Manufacturer</i>	OBO BETTERMANN GMBH & CO.KG
<i>Place of manufacture</i>	HUEINGSER RING 52 58710 MENDEN GERMANY
<i>Reference standards</i>	IEC 61537:2006; DIN EN 61537:2007

Issued in **HAMBURG** on **September 9, 2013**. This Certificate is valid until **September 8, 2018**




RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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GRM 35

GRM 55

GRM T55

GRM 2T55

GRM 105

Materials/Components

GRM 35:

Type	Item No.	Type	Item No.	Type	Item No.	Type	Item No.
GRM 35 50 G	6000 06 0	GRM 35 50 FT	6000 06 9	GRM 35 50 VA	6000 05 4		
GRM 35 100 G	6000 06 2	GRM 35 100 FT	6000 07 1	GRM 35 100 VA	6000 05 5	GRM 35 100 VA	6000 08 7
GRM 35 150 G	6000 06 3	GRM 35 150 FT	6000 07 2	GRM 35 150 VA	6000 05 6	GRM 35 150 VA	6000 08 9
GRM 35 200 G	6000 06 4	GRM 35 200 FT	6000 07 3	GRM 35 200 VA	6000 05 7	GRM 35 200 VA	6000 09 0
GRM 35 300 G	6000 06 6	GRM 35 300 FT	6000 07 5	GRM 35 300 VA	6000 05 9	GRM 35 300 VA	6000 09 1

GRM 55:

Type	Item No.	Type	Item No.	Type	Item No.
		GRM 55 50 G	6001 44 1	GRM 55 50 FT	6001 41 5
GRM 55 100 F	6001 04 0	GRM 55 100 G	6001 44 2	GRM 55 100 FT	6001 41 6
GRM 55 150 F	6001 04 4	GRM 55 150 G	6001 44 4	GRM 55 150 FT	6001 41 8
GRM 55 200 F	6001 04 7	GRM 55 200 G	6001 44 6	GRM 55 200 FT	6001 42 0
		GRM 55 200 G 4.8	6001 44 7	GRM 55 200 FT 4.8	6001 42 1
GRM 55 300 F	6001 05 0	GRM 55 300 G	6001 44 8	GRM 55 300 FT	6001 42 4
GRM 55 400 F	6001 05 3	GRM 55 400 G	6001 45 0	GRM 55 400 FT	6001 42 8
GRM 55 500 F	6001 05 6	GRM 55 500 G	6001 45 2	GRM 55 500 FT	6001 43 2
GRM 55 600 F	6001 05 9	GRM 55 600 G	6001 45 4	GRM 55 600 FT	6001 43 6

Type	Item No.	Type	Item No.
GRM 55 50 VA	6001 07 0	GRM 55 50 VA	6001 08 7
GRM 55 100 VA	6001 07 2	GRM 55 100 VA	6001 08 8
GRM 55 150 VA	6001 07 4	GRM 55 150 VA	6001 09 0
GRM 55 200 VA	6001 07 6	GRM 55 200 VA	6001 09 1
GRM 55 300 VA	6001 07 8	GRM 55 300 VA	6001 09 3
GRM 55 400 VA	6001 08 0	GRM 55 400 VA	6001 09 5
GRM 55 500 VA	6001 08 2	GRM 55 500 VA	6001 09 7
GRM 55 600 VA	6001 08 5	GRM 55 600 VA	6001 09 9

GRM T55:

Type	Item No.
GRM T55 100 G	6006 45 3
GRM T55 200 G	6006 45 5
GRM T55 300 G	6006 45 6
GRM T55 400 G	6006 45 7
GRM T55 600 G	6006 45 8

GRM 2T55:

Type	Item No.
GRM 2T55 200 G	6006 39 5
GRM 2T55 300 G	6006 39 6
GRM 2T55 400 G	6006 39 7
GRM 2T55 500 G	6006 46 8

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GRM 105:

Type	Item No.	Type	Item No.	Type	Item No.
GRM 105 100 G	6002 40 2	GRM 105 100 FT	6002 43 1	GRM 105 100 VA	6002 45 1
GRM 105 150 G	6002 40 4	GRM 105 150 FT	6002 43 3	GRM 105 150 VA	6002 45 5
GRM 105 200 G	6002 40 6	GRM 105 200 FT	6002 43 5	GRM 105 200 VA	6002 45 7
GRM 105 300 G	6002 40 8	GRM 105 300 FT	6002 43 7	GRM 105 300 VA	6002 46 0
GRM 105 400 G	6002 41 0	GRM 105 400 FT	6002 43 9	GRM 105 400 VA	6002 46 3
GRM 105 500 G	6002 41 5	GRM 105 500 FT	6002 44 3	GRM 105 500 VA	6002 46 6
GRM 105 600 G	6002 41 7	GRM 105 600 FT	6002 44 5	GRM 105 600 VA	6002 46 9

JOINT CONNECTORS:

Type	Item No.
GSV 34 G	6016 59 6
GSV 34 FT	6016 63 4
GSV 34 VA	6016 64 2
GSV 34 VA	6016 64 8

Reference documents

- OBO Bettermann Catalogue, 9158050 06/2013 DE
- OBO Bettermann Catalogue, 9158031 4/2012 EN
- OBO Bettermann Catalogue, 9158007 06/2013 DE
- Katalogauszug KTS Kabeltrag-Systeme Schichtstärken
- RINA Hamburg Stellungnahme zu Normprüfungen DIN EN 61537

Test Reports:

- 04-250-GRM105-SWL-2013-07-22-e
- 04-250-GRM2T55-SWL-2013-07-22-e
- 04-250-GRM35-SWL-2013-07-22-e
- 04-250-GRM55-SWL-2013-07-22-e
- 04-250-GRMT55-SWL-2013-07-22-e
- 04-250-GRM55x00VA4301 elektrische Eigenschaften 2012-05-16
- 2012-07-27-GRM105300G-Dauersalznebelsprühprüfung-d-InternesProtokoll

Remarks

- Components are to be installed and used according to the instructions given by the manufacturer.

HAMBURG September 9, 2013

