



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Flexa GmbH & Co Produktion und Vertrieb KG
Address	Darmstaedter Str. 184, Hanau, 63456, Germany
Place of Production	Flexa GmbH & Co Produktion und Vertrieb KG Darmstaedter Str. 184, Hanau, 63456, Germany
Type	Enclosure Systems
Description	Flexible, flame-retardant, non-metallic conduit system, corrugated for cable management, including flexible conduits and screw connectors.
Trade Name	ROHRflex PA 6 / PA 12 / PP
Application	Suitable for marine, offshore and industrial use
Specified Standard	IEC 61386-23: 2002 EN 61386-23: 2004 +A11: 2010 DIN EN 61386-23: 2011
Ratings	Degree of protection: IP66 / IP67 / IP68 / IP69K Temperature range: -45 °C up to 120 °C Material: PA / PP / TPE plastics

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For detailed ratings, pls. refer to appendix.

Other Conditions

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 01/20049 (E3)

The Design Appraisal Document HPC1662196-23/MK and its supplementary Type Approval Terms and Conditions form part of this Certificate.



Appendix

RATINGS

Type	Material	IP class	Temperature range
Flexible conduits			
PA 6	PA 6 plastics	IP66 IP67	-5 °C...120 °C
PA 6-S			-25 °C...120 °C
PA 6-L			-25 °C...120 °C
PA 6-D			-5 °C...90 °C
PA 12	PA 12 plastics	IP68 (1.2 m/1 h) IP69K	-45 °C...120 °C
PA 12-D			
PA 12-S			
PA 12+			
PP	PP plastics	IP67, IP68	-25 °C...90 °C
Screw connectors, conically sealed			
RQG1-M/-P/-C/-N	PA plastics	IP66	-25 °C...120 °C
RQG1-S			
RQG3-M/-U			
RQGZ1-M/-P/-N			
RQW1-M/-P/-N			
RQB1 45-M/-N			
RQB1 90-M			
Screw connectors, high density			
RQG-M/-P/-C/-N	PA plastics	IP66 IP67 IP68 (1.2 m/1 h) IP69K	-25 °C...120 °C
RQG2-M/-P/-N/-U			
RQGZ-M/-P/-N			
RQ GK-M/-P	PA plastics / Nickel-plated brass		
RQ GK2-M/-P			
RQ GKZ-M/-P			
RQ GKZE-M			
RQ GKZED-M			
RQ GKZP-M			
RQB45-M/-P/-N	PA plastics		
RQB90-M/-P/-N			
RQBK45-M/-P	PA plastics / Nickel-plated brass		
RQBK90-M/-P/-N			
RQBK45DR-M			
RQBK90DR-M/-N			



RATINGS (continued)

Type	Material	IP class	Temperature range
Connectors, high density			
RQGR	PA plastics	IP66 IP67 IP68 (1.2 m/1 h) IP69K	-25 °C...120 °C
RQK-PA			
RQT-PA			
RQY-PA			
RQW-F			
RQW-M/-P/-C/-N			
Connectors, low density			
RQK-GW-PA	PA plastics	IP66	-25 °C...120 °C
RQK	TPE plastics		
Accessories			
RQA	PA plastics	-	-25 °C...120 °C
RQH			
RQHD			
RQHV			
RQHG			
RQM			
RQMR			
RQMR-Move			
RQS			
RQMR-Kabel	TPE plastics		

Suffixes for screw connectors:

- M = metric thread
- P = PG thread
- C = CTG thread
- N = NPT thread
- S = plug-type
- U = UNEF thread
- F = Flange
- PA = Polyamide