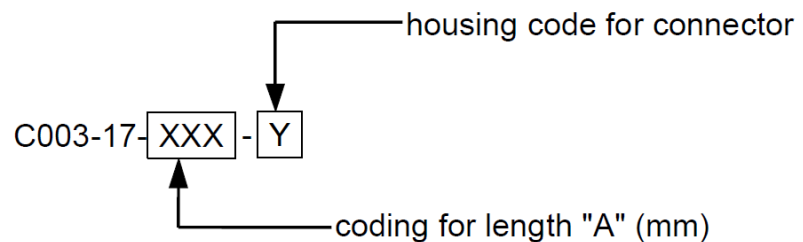
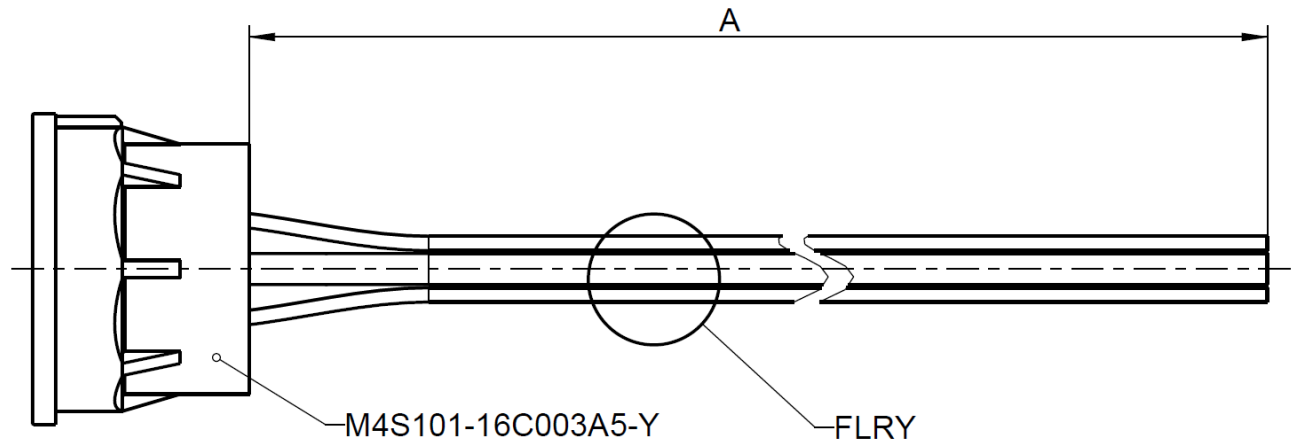


Cable assembly



All dimensions are in mm

cable length [mm]					
Range length "A"	50 to 100	100 to 1000	1001 to 2000	2001 to 5000	> 5000
Tolerance for "A"	± 3	± 5	± 10	± 20	± 1%

Dokuments

Interface
Connector data sheet
Customer drawing
Cable data sheet
Handling instructions

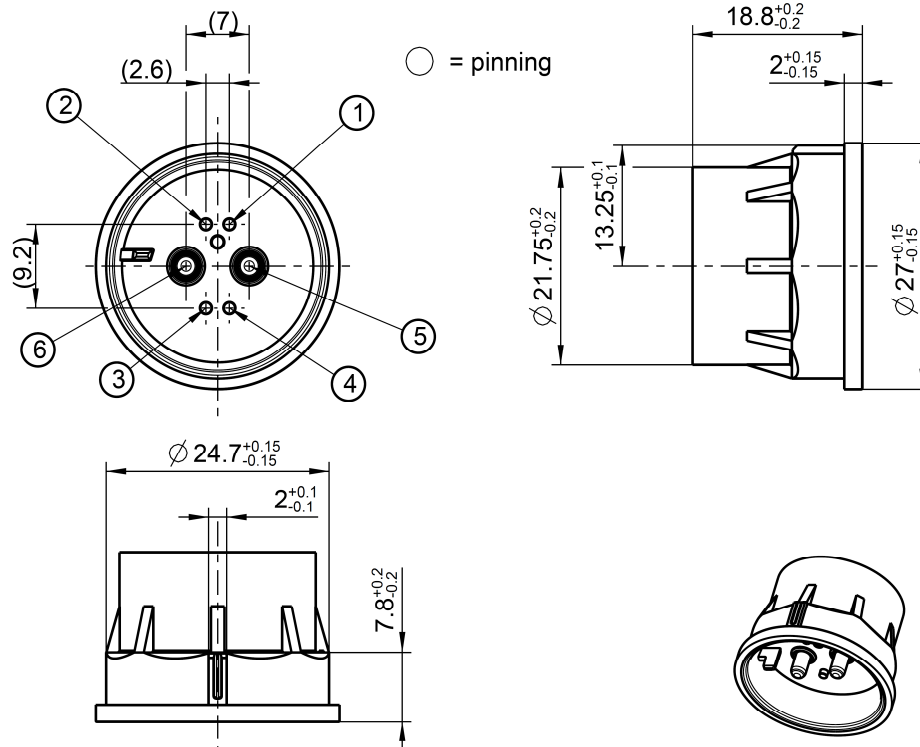
Rosenberger internal standard
M4S101-16C003A5-Y
C003-17-XXX-Y_LV
FLRY 0,35-B / FLRY 2,5-B
HI_003

Caution!

Magnets can impact the function of pace makers and implantable cardioverterdefibrillators (e.g. actuation of reed switch). Keep a minimum distance of 0,2m (20cm) between the magnetic connector and the implanted devices to prevent malfunction and danger to health.

Connector straight plug

M4S101-16C003A5-Y



All dimensions are in mm

Pinning

Pin	colour	cable cross section
1	green	0.35 mm ²
2	blue	0.35 mm ²
3	orange	0.35 mm ²
4	brown	0.35 mm ²
5	red	2.5 mm ²
6	black	2.5 mm ²

Warning!

Customer is responsible for implementing adequate safety measures:
Power supply to Pins 5 & 6 must be deactivated unless they are completely plugged in.
Power to pins 5 & 6 must only be activated upon full insertion of signal pins 1 – 4!
Misuse may damage contact!

Material and plating

Parts

Housing
Casting compound
Magnets

Material

PBT-GF30 FR
PU casting resin
NdFeB

Plating / Colour

black, sim. RAL 9005
Nickel

Pins 1-4:

Contact Pin

Brass

Gold, 0,15 µm

Pins 5-6:

Power Pin

Copper

Nickel, min. 3 µm

Electrical data

Pins 1-4:

Insulation resistance $\geq 100 \text{ M}\Omega$
Contact resistance $\leq 40 \text{ m}\Omega$ initial
Working voltage 12 V
Max. Current 3 A per pin

Pins 5-6:

Insulation resistance $\geq 100 \text{ M}\Omega$
Power current $\leq 25 \text{ A DC}$
Contact resistance $\leq 7 \text{ m}\Omega$
Working voltage $\leq 60 \text{ V DC}$

Mechanical data

Locking mechanism
Mating cycles
Disengagement force
Weight (connector only)

magnetic
min. 2500
min. 20N
14 g

Environmental data

Temperature range -40°C to + 65°C
Dust and water resistance DIN-EN-60529 IP 64 / IP 67; mated
Glow-wire flammability test for end products (GWT850°C; GWT750°C) IEC 60695-2-11:2014

Cable

FLRY

Material and Dimensions

Conductor (pinning 1-4)	Bare copper strand Cu-ETP1 acc. EN13602	0.35 mm ²	AWG 22
Conductor (pinning 5-6)	Bare copper strand Cu-ETP1 acc. EN13602	2,5 mm ²	AWG 14
Outer diameter pinning 1-4	Soft-PVC	max. Ø 1.4 mm	
Outer diameter pinning 5-6	Soft-PVC	max. Ø 3.0 mm	

Mechanical data

Bending radius Single (2.5 mm ²)	2 x d
Bending radius Multiple (<10x) (2.5 mm ²)	6 x d
Bending radius Single (0.35 mm ²)	2 x d
Bending radius Multiple (<10x) (0.35 mm ²)	6 x d
Net. weight of each cable (2.5 mm ²)	ca. 26 kg/km
Net. weight of each cable (0.35 mm ²)	ca. 5 kg/km

Environmental data

Temperature resistance (3000h)	-40° C up to +105° C
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Technical Data Sheet

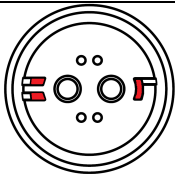
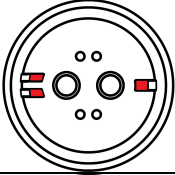
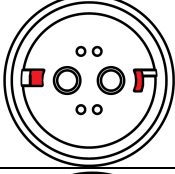
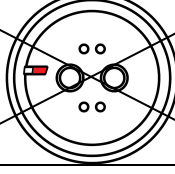
Rosenberger

RoPD®

Cable assembly

C003-17-XXX-Y

Coding

Coding	Plug	Part-Number
B		C003-17-XXX-B
C		C003-17-XXX-C
D		C003-17-XXX-D
Z		C003-17-XXX-Z

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
N. Naus	17.02.21	C. Biermann	22.09.21	400	21-1329	F. Huber	22.09.21
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