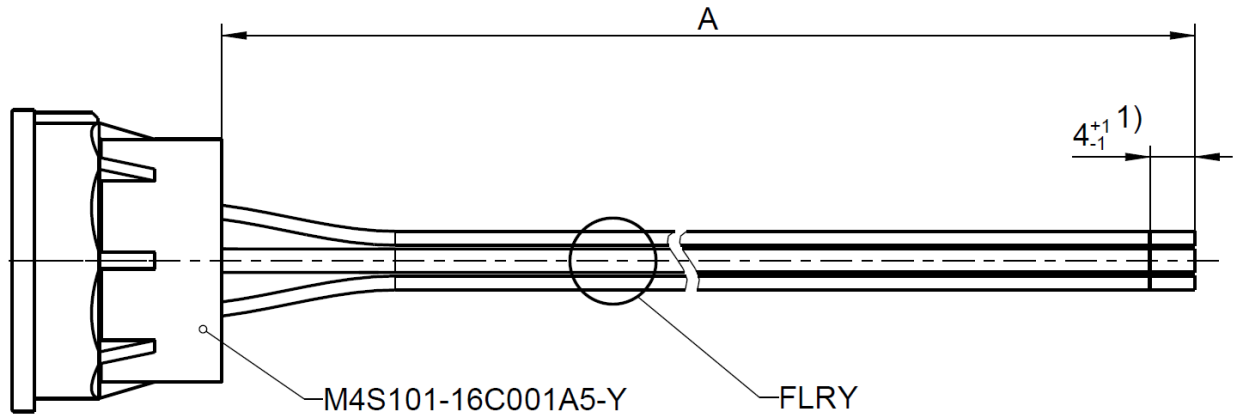
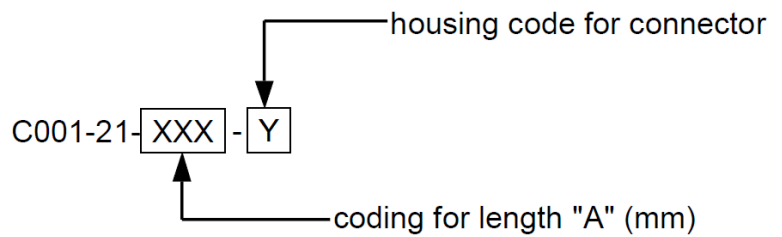


Cable assembly



1) isolation cut



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

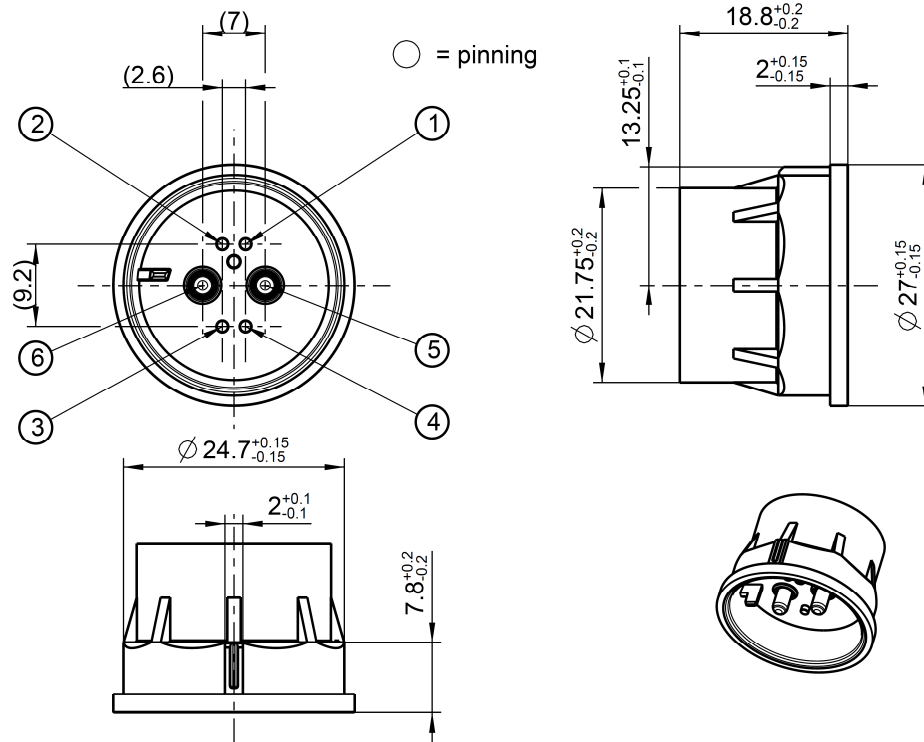
Rosenberger internal standard
 M4S101-16C001A5-Y
 C001-21-XXX-Y_LV
 FLRY 0,35-B / FLRY 1,0-B
 HI_003

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

M4S101-16C001A5-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	1.0 mm ²
6	black	1.0 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 / Color

black, sim. RAL 9005

Pins 1-4:

Contact Pin

Brass

Nickel

Pins 5-6:

Power Pin

Copper

Gold, 0.15µm

Nickel, min. 3 µm

Electrical data

Pins 1-4:

Insulation resistance ≥ 100 MΩ
Contact resistance ≤ 40 mΩ initial
Working voltage 12 V
Max. Current 3 A per pin

Pins 5-6:

Insulation resistance ≥ 100 MΩ
Power current ≤ 10 A DC
Contact resistance ≤ 7 mΩ
Working voltage ≤ 60V 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	1.0 mm ²	AWG 18
Outer diameter pinning 1-4	Soft-PVC	max. Ø 1.4 mm	
Outer diameter pinning 5-6	Soft-PVC	max. Ø 2.1 mm	

Mechanical data

Bending radius Single (1.0 mm ²)	2 x d
Bending radius Multiple (<10x) (1.0 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 (1.0 mm ²)	ca. 11 kg/km
Net. weight of each cable (0.35 mm ²)	ca. 5 kg/km

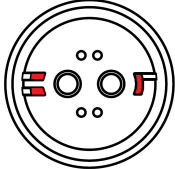
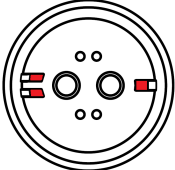
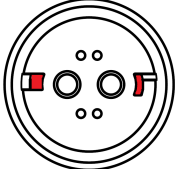
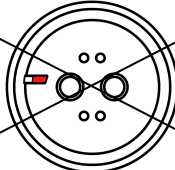
Environmental data

Temperature resistance (3000h)	-40° C up to +105° C
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RF_35/09;14/6.2

Coding

Coding	Plug	Part-Number
B		C001-21-XXX-B
C		C001-21-XXX-C
D		C001-21-XXX-D
Z		C001-21-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
F. Huber	27.07.21	C. Biermann	22.09.21	100	21-1329	F. Huber	22.09.21
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