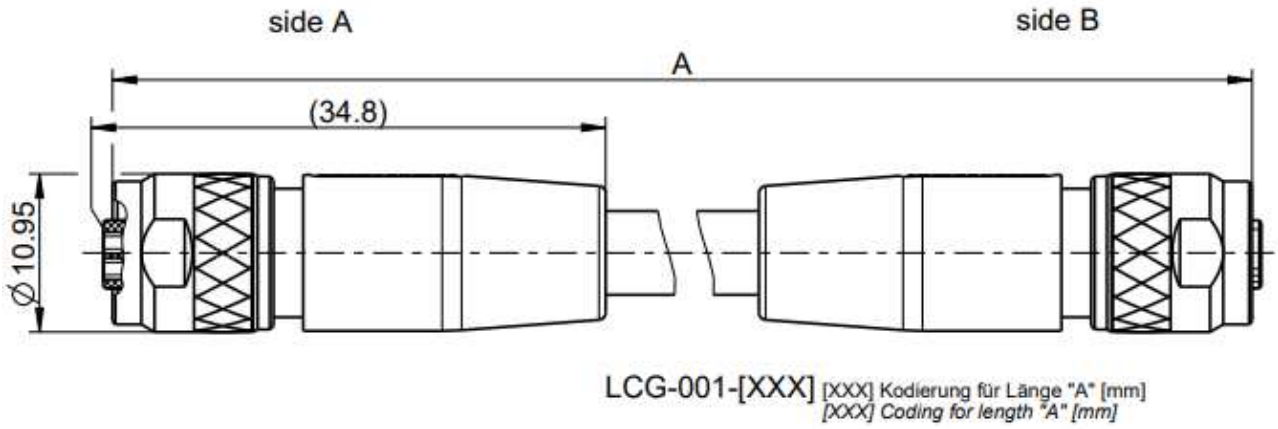
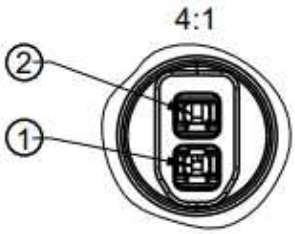
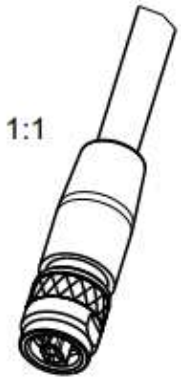
Technical Data Sheet DRAFT		Rosenberger
RoSPE-Industrial	CABLE ASSEMBLY for IP67	**LCG-001-XXX**







pinning side A	colour	pinning side B
1	blue	1
2	white	2

Dimensions (mm)			
Range (length "A")	**200 to 1000**	**1001 to 5000**	**5001 to 20000**
Tolerance (mm)	**± 10**	**± 15**	**± 20**

Material

Connector parts	**Material**	**Plating / Colour**
Inner contact	Spring Bronze	Gold, min 0.15 µm
Outer contact	Brass	Nickel, min. 3 µm
Crimping ferrule	Spring Bronze	Tin, min. 1.5 µm
Screwcap	Brass	Nickel, min. 3 µm
Snap ring	Spring Bronze	Nickel, min. 2.5 µm
Dielectric	LCP	Black, sim. RAL 9005
Overmoulding	TPU	Black, sim. RAL 9005
Sealing	NBR	black

Flame proofing

Component	**category**
Dielectric	material conforms to UL94 V0
Housing	material conforms to UL94 V0

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Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
Email : info@rosenberger.de

Mechanical data

Mating cycles	min. 750
Engagement force	≤ 10 N
Retention force	≥ 300 N

Electrical data

Impedance	acc. IEC 63171 (100 Ω)
Frequency	acc. IEC 63171 (Category C; up to 1250 MHz)
Return loss*	acc. IEC 63171 (Category C; 74-20log(f), 30dB max.)
Insertion loss	acc. IEC 63171 (Category C; 0,02*√f, 0,1 dB min.)
TCL	acc. IEC 63171 (Category C; 74-20log(f), 50dB max.)
TCTL	acc. IEC 63171 (Category C; 78-20log(f), 50dB max.)
Insulation resistance	acc. IEC 63171 (IEC 60513-3-1; > 500 MΩ)
Signal contact resistance	acc. IEC 63171 (IEC 60512-2-1; < 25 mΩ)
Shield contact resistance	acc. IEC 63171 (IEC 60512-2-1; < 25 mΩ)
Voltage proof (contact to shield)	acc. IEC 63171 (IEC 60512-4-1; 2250 V DC / 1500 V AC)
Voltage proof (contact to contact)	acc. IEC 63171 (IEC 60512-4-1; 1000 V DC)
Working voltage	60 V
Power current	acc. IEC 63171 (IEC 60512-5-2; Level II ≤ 4 A DC;60°C)
Transfer impedance	acc. IEC 63171 (IEC 60512-26-100)
Coupling attenuation	acc. IEC 63171 (IEC 62153-4-15)
	acc. ISO/IEC 11801-1:AMD1 (IEC 62153-4-15; Level E3)

** Limitations are possible due to the used cable type and termination*

Enviromental data

Temperature range	-40°C to +85°C
Thermal shock	DIN EN 60068-2-14
Humidity	DIN EN 60068-2-30 @ +40 °C
Dry heat	DIN EN 60068-2-2 @ +85 °C
Vibration	IEC 60512-test 6d
Mechanical Shock	DIN EN 60068-2-27
International protection code	IP 67
RoHS	compliant

Standards

According the standard	IEC 63171-5
Power over Data Line (PoDL)	acc. IEEE 802.3bu

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
T. Keller	10.05.22	T. Keller	23.05.22

Rev.	Engineering change number	Name	Date
300	22-0004	A. Streibl	23.05.22

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www.rosenberger.de

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