



Image for illustrative purpose only

Summary

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Number of contacts Low Voltage	48
Wire Size/AWG	30 - 22
Gender	Standard
Plug	Plug - Straight
Locking system	Push-pull
Jacket cable outside diameter [mm]	9.75 - 19.50 mm
Size	4M
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgw-4m-348-xlw.html

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Technical details

Electrical Configuration

Insert configuration value	4M.348 - 48 Low Voltage
Insulator	L: PEEK
Rated current	3 A
Contact Type	Special
Contact Dia.	0.7
Number of contacts Low Voltage	48
Wire Size/AWG	30 - 22
Gender	Standard

Form & Material

Shell style / Model id	FG - Straight plug with arctic grip
Plug	Straight
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Push-pull
Keying	W: 5 keys (alpha=95, beta=115, gamma=35, delta=25, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	24.08 g

Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-20°C / +200°C
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)
Gunfire vibration	25 Hz - 2000 Hz, 3 axis (Apache helicopter)
Humidity (max)	21 days at 95%
Lighting strike EIA 364-76	10K amps - 6 times
Shock Resistance	300 g [3 ms]
Thermal shock	5 cycles: -65°C to +150°C
Vibration-Random	37.8 g rms - 3 axes, 4 hr amb [50 Hz - 2000 Hz]
Vibration-Sine	30 g, 3 axes, 12 hr [10 Hz - 2000 Hz]
Salt Spray Corrosion	max. 48 hr

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Cable fixation

Cable termination protection

Heatshrink

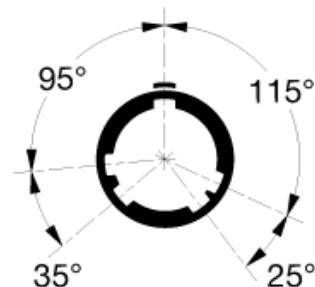
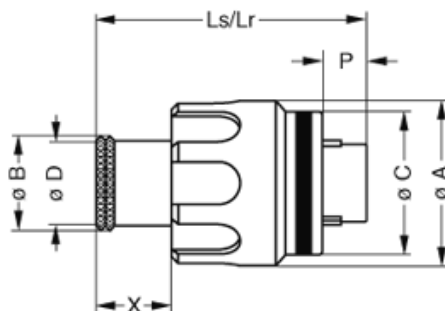
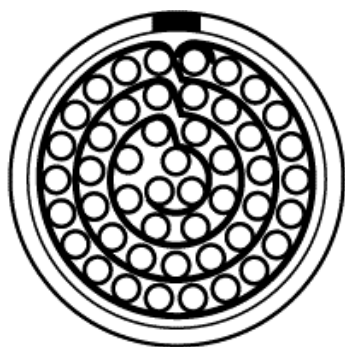
Fixation type

Cable collet

Jacket cable outside diameter [mm]

9.75 - 19.50 mm

Drawings



Dimensions

	A	B	C	D	Ls	Lr	P	X
mm.	25.9	20.7	24.5	19.5	28.6	28.6	3.4	7.6
in.	1.02	0.81	0.96	0.77	1.13	1.13	0.13	0.3

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