



*Image for illustrative purpose only*

## Summary

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Number of contacts Low Voltage	48
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
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/hyw-4m-348-clhwge.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/hyw-4m-348-clhwge.html)

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# Technical details

## Electrical Configuration

Contact Termination Low voltage	PCB - Straight
Insert configuration value	4M.348 - 48 Low Voltage
Insulator	L: PEEK
Rated current	3 A
Contact Dia.	0.7
Number of contacts Low Voltage	48
Gender	Standard

## Form & Material

Shell style / Model id	HY - Fixed receptacle, nut fixing for printed circuit, vacuumtight
Socket / Receptacle	Fixed Panel Rear Mounted
Housing material	Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces
Locking system	Push-pull
Keying	W: 5 keys (alpha=95, beta=115, gamma=35, delta=25, plug: male contacts, receptacle: female contacts)
Colour	Grey
Variant	PCB fixation with 4 ground pins

## Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	Hermetic unmated
Endurance	3000 mating cycles
Temperature range	-55°C / +150°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: -55°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	>1000 hr

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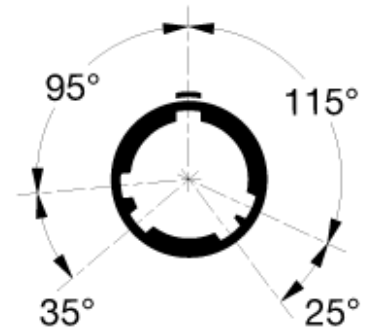
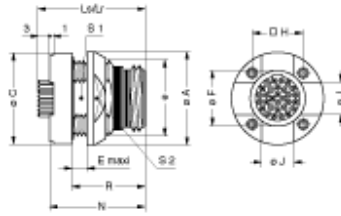
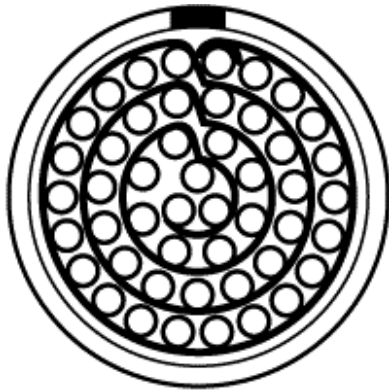
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## Cable fixation

Jacket cable outside diameter [mm]

9.75 - 19.50 mm

## Drawings



## Dimensions

	A	C	e	E	F	H	J	L	N	R	S1	S2	V
mm.	29	27.8	M24x1.00	4.5	16.8	15.24	9.5	26	23	17.4	22.5	25	M3x0.5
in.	1.14	1.09		0.18	0.66	0.6	0.37	1.02	0.91	0.69	0.89	0.98	

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