

Standard



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Summary

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[M series](#)

[Application leaflet Security Defence](#)

Number of contacts Low Voltage	4
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Size	2M
Suggested matching part	FMK.2M.304.XHCTQ
Series	M - Rugged Ratchet coupling

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Technical details

Electrical Configuration

Number of contacts Low Voltage	4
Contact Termination Low voltage	PCB - Straight
R (max) - electrical contact resistance	6.1 mOhm
Insert configuration value	2M.304 - 4 Low Voltage
Footprint IPC Class3 compatibility	Contact LEMO for details
Insulator	H: PEEK (high voltage)
Rated current	15.5 A
Test voltage contact-contact	2.22 kV DC
Test voltage contact-shell	1.9 kV DC
Contact retention	22 N
Contact Dia.	0.7 mm (0.028 in)
Gender	Standard

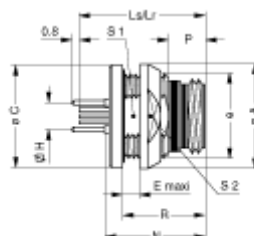
Form & Material

Shell style / Model id	HE - Fixed receptacle, nut fixing for printed circuit, watertight
Socket / Receptacle	Fixed Panel Rear Mounted
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Ratchet
Keying	K: 3 keys (beta=105, gamma=150, plug: male contacts, receptacle: female contacts)
Colour	Grey
Variant	Watertight unmated (connector to device), Increased creepage and clearances distances
Weight	8.2 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 / +80°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

Drawings



Dimensions

	A	C	e	E	H	Ls	Lr	N	P	R	S1	S2
mm.	21	20.8	M17x1.00	5	8.89	20.8	21	16.8	5.3	13.8	15.5	18
in.	0.83	0.82		0.2	0.35	0.82	0.83	0.66	0.21	0.54	0.61	0.71

Recommended By Lemo

Caps	
Compatible cap	BGK.2M.200.XAZ
Cap 2	BMK.2M.200.XAZ
Tools	
Spanner 2	DCM.65.180.AZ
Positionner	DCE.91.071.BVC
Extraction tool	DCC.07.04B.LAG
Crimp tool	DPC.91.701.V