



Summary

Request a quote

Catalog	
Number of contacts Low Voltage	5
Wire Size/AWG	24 - 20
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Matching parts	FMN.1M.305.XLC
Series	M - Rugged Ratchet coupling

Technical details

Electrical Configuration

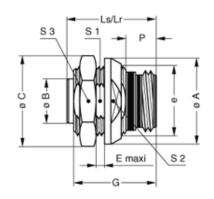
Electrical configuration						
Contact Termination Low voltage	Crimp					
R (max)	4.8 mOhm					
Insert configuration value	1M.305 - 5 Low Voltage					
Insulator	L: PEEK					
Rated current	9 Amps					
Test voltage (kV rms) Contact-contact	1.3					
Test voltage (kV rms) Contact-shell	1.3					
Contact retention	30 N					
Contact Type	Crimp					
Max. Conductor	0.5 mm^2 (AWG 20)					
Min. Conductor	0.25 mm^2 (AWG 24)					
Bucket Dia.	1.1 mm (0.043in)					
Contact Dia.	0.9 mm (0.035in)					
Number of contacts Low Voltage	5					
Wire Size/AWG	24 - 20					
Gender	Standard					
Form & Material						
Shell style / Model id	EC - Fixed receptacle with two nuts					
Socket / Receptacle	Fixed Panel Front Mounted					
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass					
Locking system	Ratchet					
Keying	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)					
Weight	9.73 g					

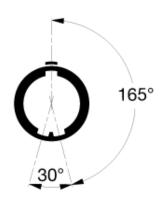
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV						
Environmental protection (IP rating)	IP50						
Minimal temperature	-20°C / +200°C						
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GF >= 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						
Cable fixation							
Jacket cable outside diameter [mm]	4.85 - 9.70 mm						

Drawings







Dimensions

	A	В	C	Ε	е	G	Ls	Lr	P	S1	S2	S3
mm.	18	5.95	19.2	5	M14x1.00	16.8	18.3	18.3	5.3	12.5	16	17
in.	0.71	0.23	0.76	0.2		0.66	0.72	0.72	0.21	0.49	0.63	0.67