

SUMMARY

Wires

Low voltage 4



Image is for illustrative purpose only

Series	2M
Termination type	Female crimp
IP rating	50
AWG wire size	20.00 - 16.00
Cable Ø	6.50 - 13.00 mm
Status	active
Matching parts	FGN.2M.304.XLC

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TECHNICAL DETAILS

Mechanics

Shell Style/Model	EC*: Fixed receptacle with two nuts
Keying	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Housing Material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Weight	11.35 g

Performance

Configuration	2M.304 : 4 Low Voltage
Insulator	L: PEEK
Rated Current	15.5 Amps

Specifications

Contact Type: Crimp
Contact Retention: 40 N
Contact Dia.: 1.3 mm (0.051in)
Bucket Dia.: 1.4 mm (0.055in)
Min. Conductor: 0.5 mm² (AWG 20)
Max. Conductor: 1 mm² (AWG 18)
R (max): 3.6 mOhm
Test voltage (kV rms) Contact-contact: 1.55

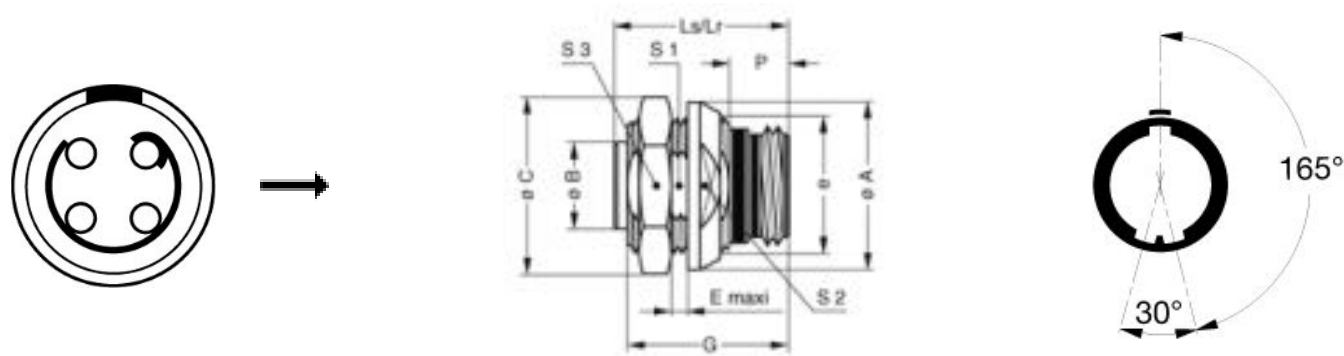
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Test voltage (kV rms) Contact-shell: 1.55

Others

- Endurance (Shell): 3000 mating cycles
- Temp (min / max): -20°C / +200°C
- Humidity (max): 21 days at 95%
- Gunfire vibration: 25 Hz - 2000 Hz, 3 axis (Apache helicopter)
- Vibration-Sine: 30 g, 3 axes, 12 hr [10 Hz - 2000 Hz]
- Vibration-Random: 37.8 g rms - 3 axes, 4 hr amb [50 Hz - 2000 Hz]
- Shock Resistance: 300 g [3 ms]
- Lighting strike EIA 364-75: 10K amps - 6 times
- Thermal shock: 5 cycles: -65°C to +150°C
- EMI Shielding EIA 364-66A: >= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)
- Salt Spray Corrosion: max. 48 hr

DRAWINGS



Dimensions

	A	B	C	E	G	Lr	Ls	P	S1	S2	S3	e
mm.	21	8.95	21.5	4	16.8	18.3	18.3	5.3	15.5	18	19	M17x1.00
in.	0,83	0,35	0,85	0,16	0,66	0,72	0,72	0,21	0,61	0,71	0,75	
























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Tools

Crimp Tool:	DPC.91.701.V
Crimp settings:	AWG/Selector = 16-18-20/8-7-7
Positionner:	DCE.91.130.5MVM
Extractor:	DCF.93.131.4LT
Replacement contact:	EGN.0M.665.ZZM
Spanner wrench:	DCM.65.000.4PA

Cables

CMN.04.T20.053PGZE		Grey	
CMN.04.T20.053PNZE			
CMN.04.T20.053QGZE	TPR (medical)	Grey	
CMN.04.T22.047QGC	TPR	Grey	
CMN.04.T22.048QGZE	TPR (medical)	Grey	
CMN.04.T28.031PGCE	PVC	GREY	
CMN.04.T28.031PGZE		Grey	
CMN.04.T28.031PNCE	PVC	Black	
CMN.04.T28.031PNZE			
CMN.04.T28.031QGC	TPR	Grey	
140240	PVC	Black	
140250	PVC	Grey	
240500	PVC	Grey	
240750	PVC	Grey	
340 150	PVC	Grey	
40080	PVC	Black	
40086	PVC	Blue	
40140	PVC	Black	
40240	PTFE	White	
40260	PVC	Black	
4041	PVC	Grey	
4050	PVC	Black	
4080	PVC	Grey	
417920	PVC	Grey	
4220	PVC	Black	
4221	PVC	Black	
4260	PTFE	White	
4280	PVC	Black	
80080	PVC	Grey	
80082	PVC	Red	

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80084	PVC	Black	
CTR.75.030.121870G	PVC	Grey	

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