



Image for illustrative purpose only

Summary

| | |
|---|--------------------------------|
| Request a quote | |
| Catalog | |
| See video assembly instructions | |
| Number of contacts Low Voltage | 25 |
| Wire Size/AWG | 24 - 20 |
| Gender | Standard |
| Plug | Plug - Straight |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 8.35 - 16.70 mm |
| Size | TM |
| Suggested matching part | PMR.TM.325.XLM |
| Series | M - Rugged Ratchet coupling |

Technical details

Electrical Configuration

| | |
|---------------------------------------|-------------------------------|
| Number of contacts Low Voltage | 25 |
| Contact Termination Low voltage | Crimp |
| R (max) | 4.8 mOhm |
| Insert configuration value | TM.325 - 25 Low Voltage |
| Insulator | L: PEEK |
| Rated current | 5 A |
| Test voltage (kV rms) Contact-contact | 1.10 |
| Test voltage (kV rms) Contact-shell | 1.25 |
| Contact retention | 30 N |
| 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) |
| Wire Size/AWG | 24 - 20 |
| Gender | Standard |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | FM - Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip |
| Plug | Straight |
| Housing material | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Locking system | Ratchet |
| Keying | R: 5 keys (alpha=105, beta=115, gamma=30, delta=20, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmr-tm-325-xlc.html

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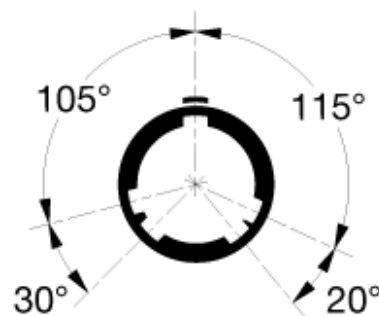
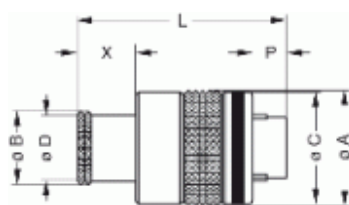
Environment

| | |
|-----------------------------------|---|
| Technical domain | Motorsport, Security and Defence, Transportation, Aerospace and UAV |
| Environmental sealing (IP rating) | IP68 |
| Endurance | 3000 mating cycles |
| Temperature range | -55°C / +200°C (max. temperature valid for short periods of use.) |
| 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 |

Cable fixation

| | |
|------------------------------------|-----------------|
| Cable termination protection | Heatshrink |
| Fixation type | Heatshrink |
| Jacket cable outside diameter [mm] | 8.35 - 16.70 mm |

Drawings



https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmr-tm-325-xlc.html

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Dimensions

| | A | B | C | D | Ls | Lr | P | X |
|-----|------|------|------|------|------|------|------|-----|
| mm. | 22.5 | 17.9 | 22 | 16.7 | 28.6 | 28.6 | 3.4 | 7.6 |
| in. | 0.89 | 0.7 | 0.87 | 0.66 | 1.13 | 1.13 | 0.13 | 0.3 |

Recommended By Lemo

Accessories

| | |
|---------------------|--------------------------------|
| Replacement contact | FGN.0M.560.ZZC |
|---------------------|--------------------------------|

| | |
|----------------|--------------------------------|
| Compatible cap | BMF.TM.100.XAV |
|----------------|--------------------------------|

Tools

| | |
|-------------|---------------------------------|
| Positionner | DCE.91.090.5MVC |
|-------------|---------------------------------|

| | |
|-----------------|--------------------------------|
| Extraction tool | DCC.09.05B.LAG |
|-----------------|--------------------------------|

| | |
|------------|------------------------------|
| Crimp tool | DPC.91.701.V |
|------------|------------------------------|

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