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# FMN.3M.330.XLCT

## SUMMARY

### # Wires

| | |
|---|---|
| **Low voltage** | **30** |



*Image is for illustrative purpose only*

| | |
|---|---|
| **Series** | 3M |
| **Termination type** | Male crimp |
| **IP rating** | 68 |
| **AWG wire size** | 26.00 - 22.00 |
| **Cable Ø** | 7.50 - 15.00 mm |
| **Status** | active |
| **Matching parts** | PMN.3M.330.XLMT |

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Catalog

See video assembly instructions

## TECHNICAL DETAILS

### Mechanics

| | |
|---|---|
| **Shell Style/Model** | FM*: Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and mold stop |
| **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** | 15.01 g |

### Performance

| | |
|---|---|
| **Configuration** | 3M.330 : 30 Low Voltage |
| **Insulator** | L: PEEK |
| **Rated Current** | 3.5 Amps |

### Specifications

Contact Type: Crimp
Contact Retention: 22 N
Contact Dia.: 0.7 mm (0.028in)
Bucket Dia.: 0.8 mm (0.031in)
Min. Conductor: 0.14 mm^2 (AWG 26)
Max. Conductor: 0.34 mm^2 (AWG 22)
R (max): 6.1 mOhm

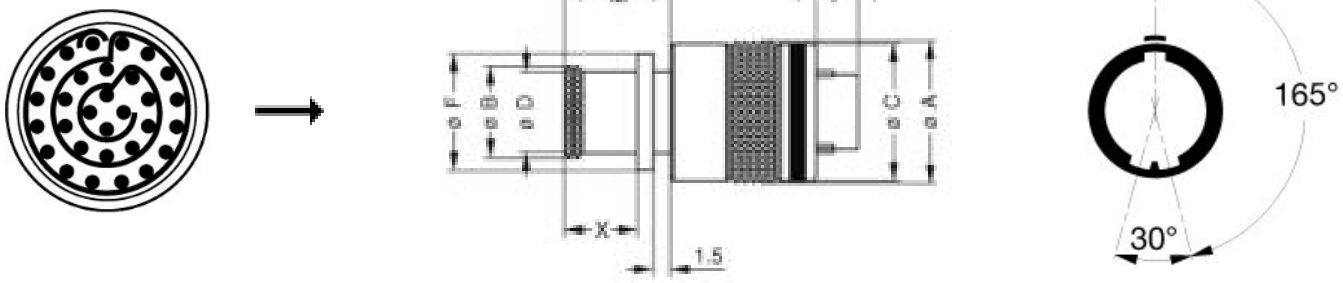
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Test voltage (kV rms) Contact-contact:  1.10
Test voltage (kV rms) Contact-shell:  1.00

### 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 | D | F | Lr | Ls | M | P | X |
|---|---|---|---|---|---|---|---|---|---|---|
| mm. | 19.6 | 16 | 19.2 | 15 | 17.5 | 27.5 | 27.5 | 10.1 | 3.9 | 7.1 |
| in. | 0,77 | 0,63 | 0,76 | 0,59 | 0,69 | 1,08 | 1,08 | 0,40 | 0,15 | 0,28 |

## RECOMMENDED BY LEMO

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## Tools

| | |
|---|---|
| Crimp Tool: | DPC.91.701.V |
| Crimp settings: | AWG/Selector = 22-24-26/6-5-5 |
| Positionner: | DCE.91.070.5MVC |
| Extractor: | DCF.93.070.4LT |
| Replacement contact: | FGN.0M.555.ZZC |

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