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# FPG.1B.316.CYCD42Z

## SUMMARY

### # Wires

| | |
|---|---|
| **Low voltage** | **16** |



*Image is for illustrative purpose only*

| | |
|---|---|
| **Series** | 1B |
| **Termination type** | Male crimp |
| **IP rating** | 50 |
| **AWG wire size** | 32.00 - 28.00 |
| **Cable Ø** | 3.10 - 4.20 mm |
| **Status** | active |
| **Matching parts** | EGG.1B.316.CYM |

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## TECHNICAL DETAILS

### Mechanics

| | |
|---|---|
| **Shell Style/Model** | FP*: Elbow (90°) plug with cable collet for bend relief |
| **Keying** | 1 key (alpha=0, plug: male contacts, receptacle: female contacts) |
| **Housing Material** | Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces |
| **Variant** | Z : Nut for fitting a bend relief |
| **Weight** | 23.64 g |

### Performance

| | |
|---|---|
| **Configuration** | 1B.316 : 16 Low Voltage |
| **Insulator** | Y: PEEK for crimp contacts |
| **Rated Current** | 1.5 Amps |

### Specifications

Contact Type: Crimp
Contact Retention: 12 N
Contact Dia.: 0.5 mm (0.02in)
Bucket Dia.: 0.45 mm (0.018in)
Min. Conductor: 0.035 mm^2 (AWG 32)
Max. Conductor: 0.09 mm^2 (AWG 28)

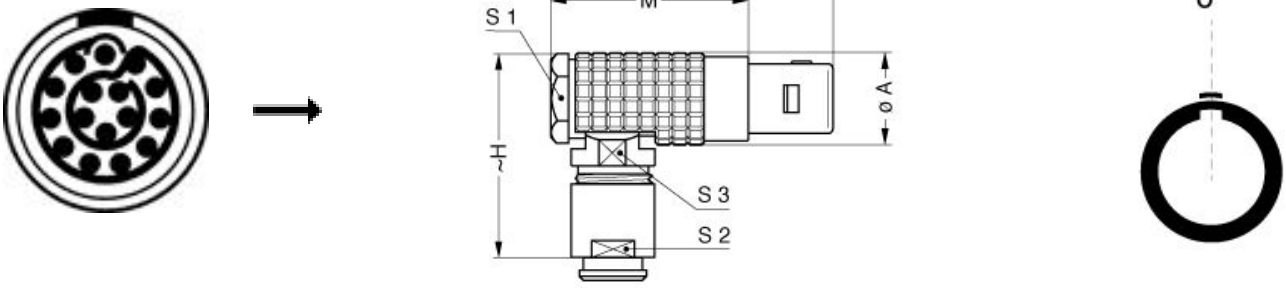
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R (max): 8.7 mOhm
Vtest (contact-shell): 1600 V (AC), 2250 V (DC)
Vtest (contact-contact): 950 V (AC), 1340 V (DC)

### Others

Endurance (Shell): 5000
Temp (min / max): -55°C / +250°C
Humidity (max): <=95% [at 60 deg C /140 F]
Vibration: 15 g [10 Hz - 2000 Hz]
Shock Resistance: 100 g [ 6 ms]
Climatical Category: 50/175/21
Shielding (min): 75 dB (10 MHz)
Shielding (min): 40 dB (1 GHz)
Salt Spray Corrosion: >1000 hr

## DRAWINGS




### Dimensions

| | A | H | L | M | S1 | S2 | S3 |
|---|---|---|---|---|---|---|---|
| mm. | 12 | 27.7 | 36 | 25 | 11 | 9 | 10 |
| in. | 0,47 | 1,09 | 1,42 | 0,98 | 0,43 | 0,35 | 0,39 |

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## Tools

| | |
|---|---|
| Crimp Tool: | DPC.91.701.V |
| Crimp settings: | AWG/Selector = 28-30-32/4-3-3 |
| Positionner: | DCE.91.051.BVC |
| Extractor: | DCF.91.050.2LT |
| Replacement contact: | FGG.1B.554.ZZC |
| Spanner wrench: | DCD.1B.015.PA090 |

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