SPECIFICATION

Commercial MIL-DTL-5015

A new range of high reliability, rugged, RoHS-compliant Circular Connectors released by Harwin to meet the high standards of MIL-DTL-5015, yet priced to be cost-effective for commercial and industrial applications.

Designed for use in harsh and demanding environments, the high specification, cadmium- and hexavalent chromium-free range features free plug, panel mount and cable connector orientations in a number of popular shell and layout options.

Features

- Intermateable with MIL-DTL-5015
- Low cost, highly durable & rugged connector system
- Solder termination

Materials

Outer Shell:

Inner Contacts:

Insulator, Grommet:

Electrical

Current Rating:

Voltage Rating:

Voltage proof:

Insulation Resistance:

Full environmental sealing with the use of backshells and sealing gaskets, exceeds IP-67

Aluminium Alloy, Zinc with

Copper Alloy, Silver finish

10SL shell: 500V AC, 700V DC 12S shell: 500V AC, 700V DC

14S shell: 200V AC, 250V DC

10SL shell: 2,000V AC

12S shell: 2,000V AC

14S shell: 1,000V AC

5,000 MΩ min.

Black Chromate finish

Polychloroprene

13A

- Threaded and polarised coupling
- Zinc & Black Chromate-plated shells
- COTS applications where MIL Spec is not mandatory

Environmental

Operating Temperature: Vibration sensitivity:	
Shock severity:	
Water Resistance (sealing)	:

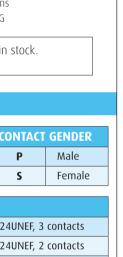
-55°C to +125°C 10Hz to 500Hz, 98mm/s² (10G) 490m/s² (50G) for 11ms 1.8m for 48 hours - exceeds IP67

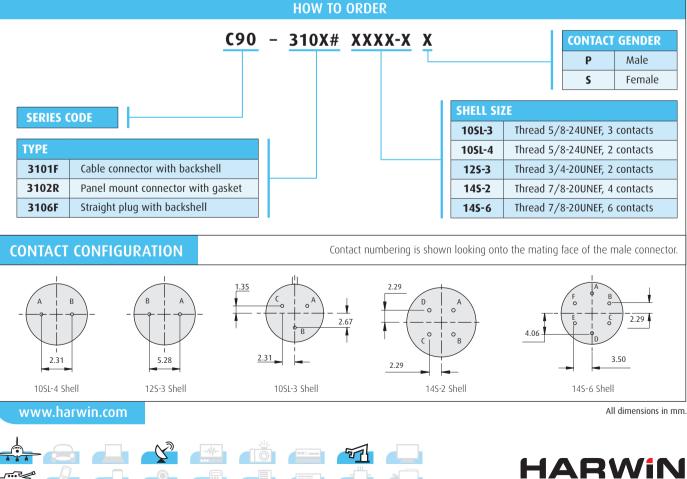
Mechanical

Durability: Wire size:

500 operations 16 to 22 AWG

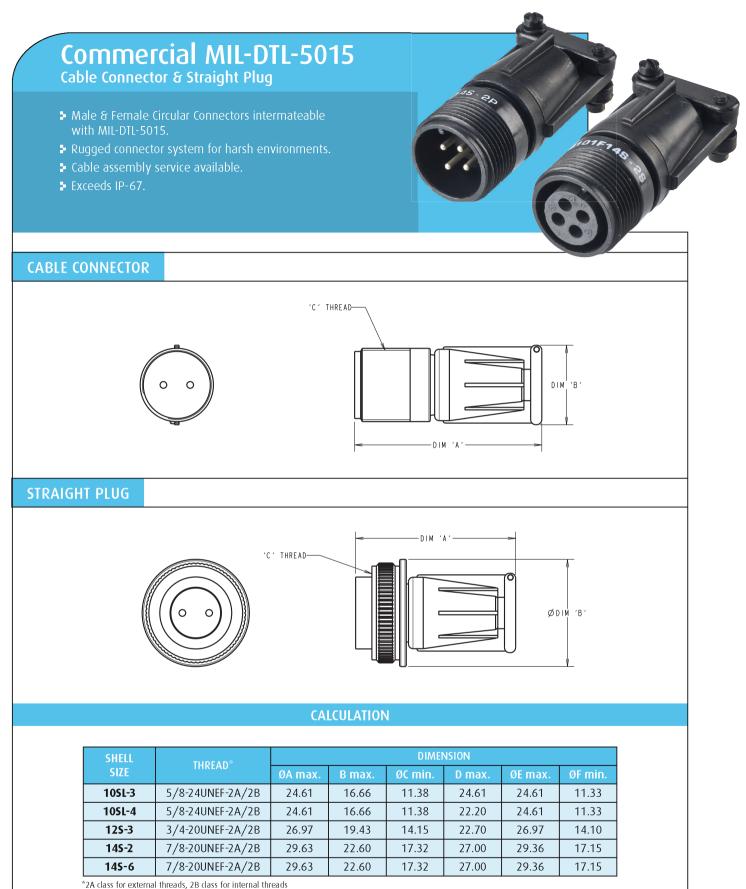
All preferred sizes of this range are held in stock. Check www.harwin.com for availability.





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CIRCULAR CONNECTORS



All dimensions in mm.



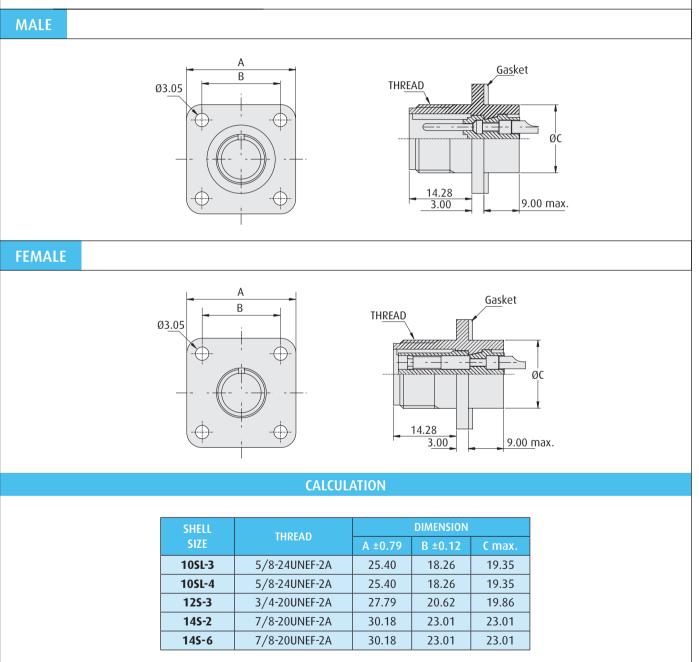
www.harwin.com



Commercial MIL-DTL-5015

Panel Mount Connector, Receptacle Style

- Male & Female Circular Connectors intermateable with MIL-DTL-5015.
- Features screw holes for panel mounting.
- Gaskets provide additional sealing.
- 13A power.



www.harwin.com



All dimensions in mm.



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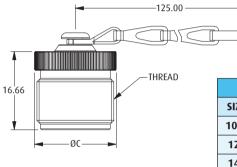
Commercial MIL-DTL-5015 Dust Caps & Rubber Bushing

- Dust cap with external thread for use with Straight Plugs (C90-3106F).
- Dust cap with internal thread for use with Cable connectors (C90-3101F) and Panel Mount connectors (C90-3102R).
- Dust caps supplied fitted with chain.
- Rubber Bushing for use with Cable connectors (C90-3101F) and Straight Plugs (C90-3106).



RUBBER BUSHING

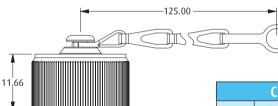
DUST CAP – EXTERNAL THREAD



CALCULATION				
SIZE	ØC MAX	THREAD		
10SL	17.45	5/8-24UNEF-2A		
125	20.62	3/4-20UNEF-2A		
14S	23.8	7/8-20UNEF-2A		

DUST CAP – INTERNAL THREAD

THREAD



CALCULATION			
SIZE	ØD MAX	THREAD	
10SL	20.70	5/8-24UNEF-2B	
125	25.40	3/4-20UNEF-2B	
14S	28.58	7/8-20UNEF-2B	

CALCULATION				
SIZE	ØA	В		
4	5.59	69.85		
6	7.92	66.68		

HOW TO ORDER C90 – **XXXXX** – **XXXX** SIZE **SERIES CODE** 10**S**L For use with 10SL shell size (Dust caps) TYPE For use with 12S shell size (Dust caps) 125 25042 Dust Cap – External thread For use with 14S shell size (Dust caps) 14S 25043 Dust Cap – Internal thread For use with 10SL & 12S shell sizes (Bushing) 4 3420 Rubber Bushing 6 For use with 14S shell size (Bushing)

All dimensions in mm.



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