

# High Current Circular Connectors (DTS-HC)

The Deutsch DTS-HC series connector is ideally suited for power control systems for military vehicles using a 8mm<sup>2</sup>, 16mm<sup>2</sup> or 25mm<sup>2</sup> cable. With both high electrical power and signal contacts within the same body. The power contacts are rated to 150 amps and are suitable for power ring main supplies.

## FEATURES

- Dual contact design
- High current contacts
- 100% scoop proof design
- Grounding fingers
- Elastomer interface
- RFI fingers at mating interface
- Removable rear crimp contacts
- Dedicated back fitting and grommet

## BENEFITS

- Space saving with integral power and signal wires
- Provides superior contact retention under severe vibration
- Standard Mil-C-39029 contacts as used in Mil-DTL-38999 connectors
- Threaded coupling with self locking mechanism for anti-vibration
- Enhanced cable support and sealing

## COMPANY QUALITY APPROVALS

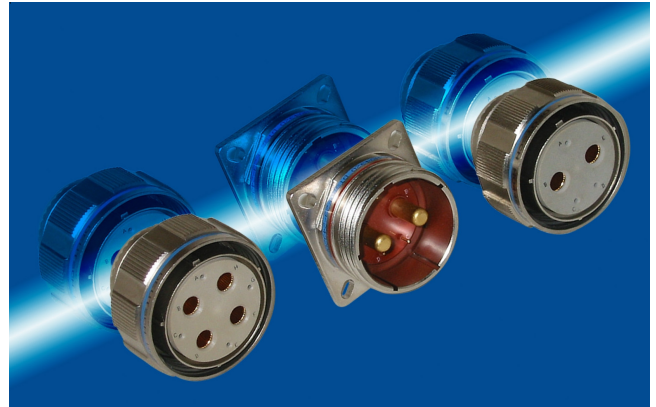
- Civil Aviation Authority A8-1
- BS EN ISO 9001
- Military Spec Approvals 38999
- BS9000 and CECC
- Underwriters Laboratories

**With 30 years experience in designing and manufacturing at its own facilities, Deutsch UK can provide interconnection solutions for the most demanding of environments**

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## GENERAL SPECIFICATION

### Material:

Shell/coupling ring:  
Plating:

High Strength Aluminium Alloy  
Nickel (RoSH compliant) (standard)  
Olive Drab Cadmium (optional)  
Zinc Cobalt (optional)

### Contacts:

Material:  
Current Rating:

Gold plated Copper Alloy  
Size 4 service rating 150 Amp  
Size 20 service rating in accordance with MIL-C-38999  
Crimp

Type:

### Cable Size:

Size 4:

8mm<sup>2</sup>, 16mm<sup>2</sup> & 25mm<sup>2</sup> cable  
CENELEC Specification HD516  
20-04 AWG cable

Size 20:

### Crimp Tool:

Dubius Tool D51

### Dieset:

16mm<sup>2</sup> cable  
25mm<sup>2</sup> cable

31040  
31041

### Insulators:

Thermoplastic

### Interface Seal:

Fluorinated Silicone

### Temperature:

-65°C to +175°C

### Backshell:

It is highly recommended for the correct installation that the dedicated back fitting and rear grommet is used with this connector

### Protective Caps:

Plug & receptacle caps are available

### Durability:

No electrical or mechanical defects after 500 cycles

### Vibration:

As per Mil-DTL-38999

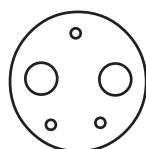
### Thermal Shock:

As per Mil-DTL-38999



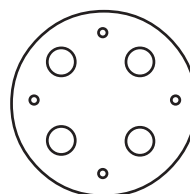
## INSERT ARRANGEMENTS

Shell Size 23



**23-24320**  
2 x Size 4 contacts  
3 x Size 20 contacts

Shell Size 25



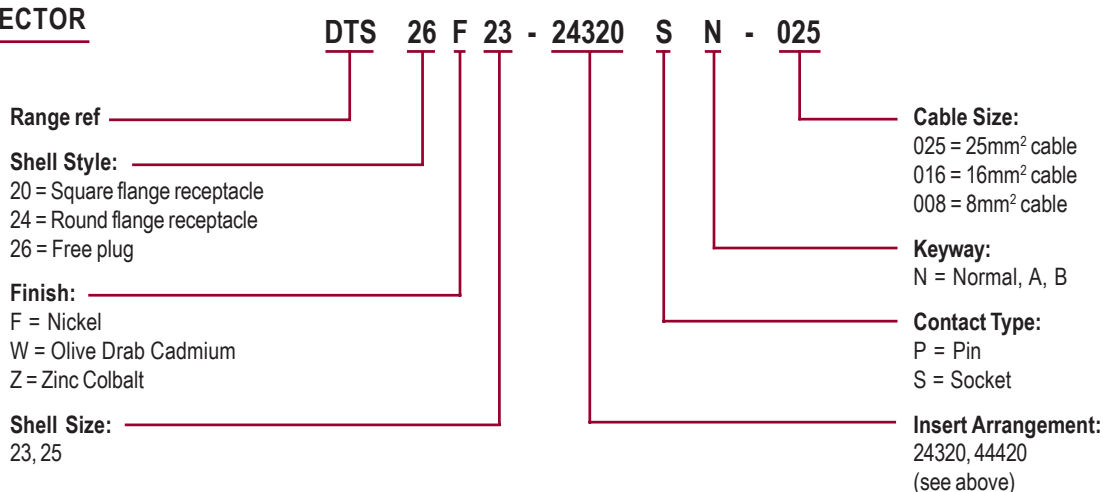
**25-44420**  
4 x Size 4 contacts  
4 x Size 20 contacts

## DIMENSIONAL INFORMATION

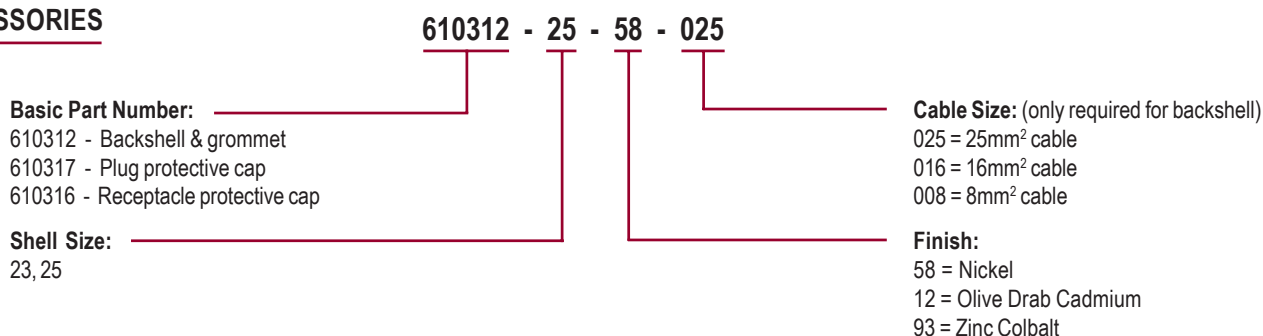
Please refer to the Deutsch UK D38999 Series 3 & DTS Dimensional Information datasheet

## ORDERING INFORMATION

### CONNECTOR



### ACCESSORIES



## CONTACTS AND TOOLING

| Contacts & Tooling                                | Part Number  |
|---------------------------------------------------|--------------|
| Contact pin size 4 for 25mm <sup>2</sup> cable    | 605660       |
| Contact socket size 4 for 25mm <sup>2</sup> cable | 605654       |
| Contact pin size 4 for 16mm <sup>2</sup> cable    | 605734       |
| Contact socket size 4 for 16mm <sup>2</sup> cable | 605739       |
| Contact pin size 4 for 8mm <sup>2</sup> cable     | 610151       |
| Contact socket size 4 for 8mm <sup>2</sup> cable  | 610152       |
| Contact pin size 20                               | 38941-20     |
| Contact socket size 20                            | 38943-20     |
| Contact removal tool size 4 contacts              | 610136-TOOL  |
| Insertion/Extraction tool size 20 contact         | M81969/29-03 |

## REAR GROMMETS

| Rear Grommet                              | Part Number    |
|-------------------------------------------|----------------|
| Shell size 23 for 25mm <sup>2</sup> cable | 605845         |
| Shell size 25 for 25mm <sup>2</sup> cable | 605846         |
| Shell size 23 for 16mm <sup>2</sup> cable | 610314         |
| Shell size 25 for 16mm <sup>2</sup> cable | 610315         |
| Shell size 23 for 8mm <sup>2</sup> cable  | to be assigned |
| Shell size 25 for 8mm <sup>2</sup> cable  | to be assigned |

# Mouser Electronics

Authorized Distributor

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## TE Connectivity:

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[DTS26Z25-35PA-6149](#) [DTS24Z17-99PN-3028](#) [DTS20Z21-41SC-6149](#) [DTS20Z15-97PE-6149](#) [DTS20Z17-08PE-6149](#)  
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[6149](#) [DTS20Z23-53SA](#) [DTS20Z25-61SC-3028](#) [DTS20Z17-06SC-3028](#) [DTS24Z19-32SA](#) [DTS20Z25-37SE-3028](#)  
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