

High Current Circular Connectors (DTS-HC)

The Deutsch DTS-HC series connector is ideally suited for power control systems for military vehicles using a 8mm², 16mm² or 25mm² 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: High Strength Aluminium Alloy
Plating: Nickel (RoSH compliant) (standard)
Olive Drab Cadmium (optional)
Zinc Cobalt (optional)

Contacts:

Material: Gold plated Copper Alloy
Current Rating: Size 4 service rating 150 Amp
Size 20 service rating in accordance with MIL-C-38999
Type: Crimp

Cable Size:

Size 4: 8mm², 16mm² & 25mm² cable
CENELEC Specification HD516
Size 20: 20-04 AWG cable

Crimp Tool:

Dubius Tool D51

Dieset:

16mm² cable 31040
25mm² cable 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:

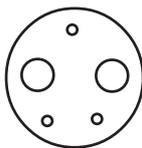
As per Mil-DTL-38999

Thermal Shock:

As per Mil-DTL-38999

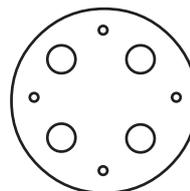
INSERT ARRANGEMENTS

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

	DTS	26	F	23	-	24320	S	N	-	025	
Range ref											Cable Size:
Shell Style:											025 = 25mm ² cable
20 = Square flange receptacle											016 = 16mm ² cable
24 = Round flange receptacle											008 = 8mm ² cable
26 = Free plug											Keyway:
Finish:											N = Normal, A, B
F = Nickel											Contact Type:
W = Olive Drab Cadmium											P = Pin
Z = Zinc Colbalt											S = Socket
Shell Size:											Insert Arrangement:
23, 25											24320, 44420 (see above)

ACCESSORIES

	610312	-	25	-	58	-	025	
Basic Part Number:								Cable Size: (only required for backshell)
610312 - Backshell & grommet								025 = 25mm ² cable
610317 - Plug protective cap								016 = 16mm ² cable
610316 - Receptacle protective cap								008 = 8mm ² cable
Shell Size:								Finish:
23, 25								58 = Nickel
								12 = Olive Drab Cadmium
								93 = Zinc Colbalt

CONTACTS AND TOOLING

Contacts & Tooling	Part Number
Contact pin size 4 for 25mm ² cable	605660
Contact socket size 4 for 25mm ² cable	605654
Contact pin size 4 for 16mm ² cable	605734
Contact socket size 4 for 16mm ² cable	605739
Contact pin size 4 for 8mm ² cable	610151
Contact socket size 4 for 8mm ² 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 ² cable	605845
Shell size 25 for 25mm ² cable	605846
Shell size 23 for 16mm ² cable	610314
Shell size 25 for 16mm ² cable	610315
Shell size 23 for 8mm ² cable	to be assigned
Shell size 25 for 8mm ² cable	to be assigned

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