

# MIL-STD-1760 Type 2 (MIL-DTL-83538)

## Stores Management Systems

The 1760 Type 2 differs from the Type 1 in that it is specifically designed for rail launch applications. Type 2 blindmate comprises launcher receptacle, buffer, missile receptacle and protective cap and is designed for a quick coupling of stores where access is restricted.

The buffer provides protection for the launcher receptacle from the missile efflux and is replaceable as necessary. The buffer has fixed pin contacts and is supplied with a full complement of contacts.

Special buffer adaptors are available for connection of various configurations of stores aircraft - please consult Deutsch.



## FEATURES

- Bayonet locking for easy coupling
- Replaceable buffer
- Full EMC shielding
- Full environmental performance
- Adaptors for multi-configurations
- Corrosion resistant construction

## 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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## BENEFITS

- Blindmate capability
- Assured performance in all conditions
- Repeatable performance
- Easy disconnect/connect

## GENERAL SPECIFICATION

<b>Material:</b>	
Shell/coupling ring:	Stainless Steel
Plating:	Nickel plating
<b>Contacts:</b>	
Material:	Gold plated Copper Alloy
Type:	Crimp
<b>Insulators:</b>	Thermoplastic
<b>Interface Seal:</b>	Fluorinated Silicone
<b>Temperature:</b>	-55°C to +175°C
<b>Durability:</b>	No electrical or mechanical defects after 500 cycles
<b>Vibration:</b>	As per Mil-DTL-83538
<b>Thermal Shock:</b>	As per Mil-DTL-83538



DEUTSCH

## ORDERING INFORMATION

Product Name	Launcher Receptacle	Stores Receptacle	Standard Buffer	Reverse Buffer
Deutsch Part No.	604250	604282	604255	605782
Mil Reference	MIL-DTL-83538/4	MIL-DTL-83538/1	MIL-DTL-83538/3	Awaiting allocation

Product Name	Special Transition Buffer	Launcher Receptacle Protective Cap	Stores Receptacle Protective Cap	Protective Cap Installation & Removal Tool
Deutsch Part No.	610172	604271	604281	610173
Mil Reference	Mil-DTL-83538/11	MIL-DTL-83538/8	MIL-DTL-83538/7	MIL-DTL-83538/12

Product Name	No Volts Test Plug	Stores Receptacle Locking Nut	Cable Bushing	Cable Adaptor
Deutsch Part No.	610174	604287	604266	604268-xx*
Mil Reference	MIL-DTL-82538/13	MIL-DTL-82538/6	MIL-DTL-82538/10	MIL-DTL-82538/9

**Note:**

\*The Cable Adaptor is available in sizes 9 to 23 where xx is the cable size

## CONTACTS, TOOLING & FILLER PLUGS

Contact Size & Type	Deutsch Part Number	Military Spec. Part Number	Crimping Tool	Crimping Tool Locator	Insert/Extract Tool	Filler Plugs
20 Pin	39841-20	M39029/58-363	M22520/1-01	M22520/1-04	M18969/14-02	600300-20
20 Socket	39843-20	M39029/56-351	M22520/1-01	M22520/1-04	M18969/14-02	600300-20
16 Pin	39841-16	M39029/58-364	M22520/1-01	M22520/1-04	M18969/14-03	600300-16
16 Socket	39843-16	M39029/56-352	M22520/1-01	M22520/1-04	M18969/14-03	600300-16
12 Shielded Pin	62290-211	M39029/28-211	Inner M22520/2-01	M22520/2-34	M18969/14-04	602064
12 Shielded Socket	602272-416	M39029/75-416	Outer M22520/31-01	M22520/31-02	M18969/14-04	602065
12 Coax Pin	604727	M39029/102-558	Inner Soldered	Not applicable	M18969/14-04	602064
12 Coax Socket	604728	M39029/103-559	Outer M22520/5-01	M2252/5-03	M18969/14-04	602065
10 Pin	602078-10	M39029/58-528	1716 P-I	Integral with tool	M18969/14-05	602068
10 Socket	602079-10	M39029/56-527	DMC	Integral with tool	M18969/14-05	602068
8 Twinax Pin	602081-A*	M39029/90-529	Ctr M22520/2-01 Int M22520/5-01	K709 Y631 Close B	M18969/14-06	602066
8 Twinax Socket	602091-A*	M39029/91-530	Outer M22520/5-01	Y631 Close A	M18969/14-06	602067
8 Twinax Pin (Speedy Crimp)	602080-A*	awaiting allocation	Ctr TDB-CT-08 Int TDB-CT-08 Outer M22520/5-01	Integral with tool	M18969/14-06	602066
8 Twinax Socket (Speedy Crimp)	602090-A*			Integral with tool	M18969/14-06	602067
8 Twinax Socket (Speed Crimp Short-Lenght)	602069-A*			Y631 Close A	M18969/14-06	602067

**Note:**

Filler plugs must be ordered separately as they are not supplied with the connectors  
 \*Size 8 contacts are delivered with a contact sealing boot