



CRE

Underwater Connectivity

Trexon | An **Amphenol** Company

Connector Catalogue

Revision 1
March 2026

Since 2002, CRE has been dedicated to supporting its clients' operations in one of the most challenging environments on Earth – *the deep ocean*.

Our company serves an industry that demands products to be produced within tight deadlines, all while maintaining the highest quality standards. We understand that the reliability and performance of our products are crucial for our customers to provide the exceptional service they aim for.

What We Do

CRE specializes in designing and manufacturing an extensive range of all-metal shell connectors, fibre optic products, strain terminations, penetrators, and junction boxes tailored for extremely heavy-duty applications. Our products are trusted for use in the most demanding underwater environments, from the splash zone to full ocean depth.

CRE's Extensive Inventory of Underwater Connectors

CRE holds a substantial inventory of standard industry components from leading manufacturers of underwater connectors. We have over 40,000 meters of cable that encompasses a wide array of power and data components tailored for various applications, ensuring we can fulfill your requirements.

The vast selection of connectors and cables we offer is backed by hundreds of mould tools and thousands of custom inserts, providing the flexibility needed to support our diverse client base.

We Deliver

CRE understands that availability and timely delivery are vital to our clients' operational success. This commitment is reflected in the substantial inventory we maintain, which enables us to provide shorter lead times and superior on-time delivery compared to our competitors.

Market Segments

CRE has quickly established a robust reputation for our diverse product range, exceptional quality, and flexibility in adapting to new demands and applications. Throughout our history, we have provided support to our extensive and continually expanding client portfolio in the following markets:

Underwater Vehicles

Ocean Science

Diving

OEM's

Energy

Defence

Aquaculture

Marine Engineering



Electrical Connectors

Coax Connectors

Fibre Optics

Hybrid

Cables

Moulding

Junction Boxes

Strain Termination



KEY FEATURES

- Up to **14** contacts
- Mixed contact sizing options and custom configurations
- Multiple mounting interfaces
- Rated for **6000m** WD mated and open face as standard, higher pressure available on application
- Oil filled (OF) available as standard, pressure balanced oil filled (PBOF) available for certain pin configurations (connector & bulkhead assemblies)
- Working voltage and current dependent on contact density and diameter.



W-SIZE



3 WAY
600 VDC



4 WAY
600 VDC



5 WAY
600 VDC



6 WAY
600 VDC



7 WAY
600 VDC



V-SIZE



6 WAY
600 VDC



7 WAY
600 VDC



12 WAY
600 VDC

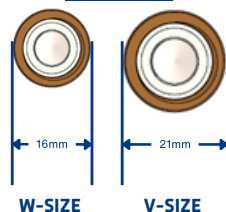


14 WAY
600 VDC



Pin Colour Code			
Contact Diameter	0.75	1.0	1.56
Wire Size	24 awg	22 awg	16 awg
Current	8 amps	11 amps	26 amps
Contact rating based on PTFE type C cable			

ACTUAL SIZE





KEY FEATURES:

- Aluminium shell connectors - saves weight and space
- 2 Shell Sizes (J & K)
- Up to 9 contacts - Size J
- Up to 10 contacts - Size K
- Pressure up to 5,900 psi Size J (Mated or open faced)
- Pressure up to 7,000 psi Size K (Mated or open faced)
- Up to 500 VDC
- Up to 13 amps
- Standard design to accommodate oil filled hose
- Overmould options available

J-SIZE



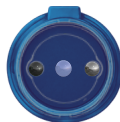
3 WAY
500 VDC



5 WAY
400 VDC



9 WAY
300 VDC



1 CHANNEL
SINGLEMODE
MULTIMODE



7 WAY
500 VDC



10 WAY
300 VDC

K-SIZE

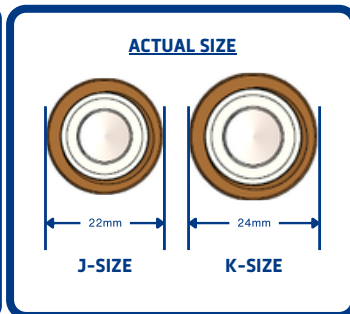
OPTIONS:

- Field Installable.
- Mixed contact sizes for power/data requirement.
- 90 and 45 degree CCP adaptors available.
- Bespoke design/configuration to suit customer requirements at no extra cost.

APPLICATIONS:

- ROV & AUV Systems
- Underwater Cameras and Lights
- Diver communications
- BOP Monitoring Equipment
- Recreational submersibles
- Stress Monitoring
- Neutrino Detection
- Downhole Applications

Pin Colour Code		
Contact Diameter	1.0	1.56
Wire Size	20 awg	18 awg
Current	14 amps	20 amps
Contact rating based on PTFE type C cable		





KEY FEATURES

- Up to **16** contacts including **COAX** option
- Mixed contact sizing options and custom configurations
- Multiple mounting interfaces
- Rated for **6000m** WD mated and open face as standard, higher pressure available on application
- Oil filled (OF) available as standard, pressure balanced oil filled (PBOF) available for certain pin configurations (connector & bulkhead assemblies)
- Working voltage and current dependent on contact density and diameter.



6 WAY
600 VDC



10 WAY
600 VDC



14 WAY
600 VDC



16 WAY
600 VDC



COAX (50/75ohm)
600 VDC



KEY FEATURES

- Up to **18** contacts with **COAX**
- 75 ohm rated
- Rated for **6000m** WD mated and open face as standard, higher pressure available on application
- Oil filled (OF) available as standard, pressure balanced oil filled (PBOF) available for certain pin configurations (connector & bulkhead assemblies)
- Working voltage and current dependent on contact density and diameter.



6 WAY-COAX (75ohm)
600 VDC



8 WAY-COAX (75ohm)
600 VDC



18 WAY-COAX (75ohm)
600 VDC



KEY FEATURES

- Up to **14** contacts
- Mixed contact sizing options and custom configurations
- Multiple mounting interfaces
- Rated for **6000m** WD mated and open face as standard, higher pressure available on application
- Oil filled (OF) available as standard, pressure balanced oil filled (PBOF) available for certain pin configurations (connector & bulkhead assemblies)
- Working voltage and current dependent on contact density and diameter.



2 WAY
600 VDC



3 WAY
600 VDC



4 WAY
600 VDC



5 WAY
600 VDC



6 WAY
600 VDC



7 WAY
600 VDC



7 WAY-HYBRID
600 VDC



8 WAY
600 VDC



8 WAY-HYBRID
600 VDC



9 WAY
600 VDC



11 WAY
600 VDC



12 WAY
600 VDC



14 WAY
600 VDC



6 WAY-PBOF
600 VDC

Pin Colour Code				
Contact Diameter	0.75	1.0	1.56	1.9
Wire Size	24 awg	22 awg	16 awg	14 awg
Current	8 amps	11 amps	26 amps	40 amps
Contact rating based on PTFE type C cable				

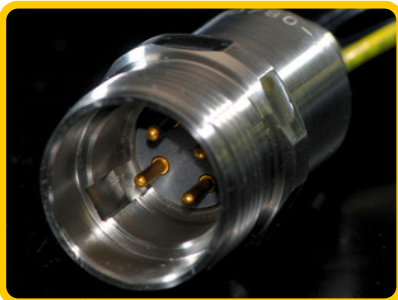




KEY FEATURES

- Up to **38** contacts
- Mixed contact sizing options and custom configurations
- Multiple mounting interfaces
- Rated for **6000m** WD mated and open face as standard, higher pressure available on application
- Oil filled (OF) available as standard, pressure balanced oil filled (PBOF) available for certain pin configurations (connector & bulkhead assemblies)
- Working voltage and current dependent on contact density and diameter.





KEY FEATURES:

- Supports up to **64** contacts
- Mixed contact sizing options and custom configurations
- Multiple mounting interfaces
- Rated for **6000m** water depth, with higher pressure options available
- Standard oil-filled (OF) and pressure balanced oil-filled (PBOF) configurations for specific pins
- Working voltage and current vary based on contact density and diameter.



4 WAY
600 VDC



4 WAY-HYBRID
1000 VDC



8 WAY
600 VDC



10 WAY
600 VDC



11 WAY
600 VDC



12 WAY
600 VDC



12 WAY-HYBRID
600 VDC



12 WAY-HYBRID 2
1000 VDC



16 WAY
600 VDC



19 WAY
600 VDC



20 WAY
600 VDC



21 WAY
600 VDC



21 WAY-HYBRID
600 VDC



26 WAY
1000 VDC



30 WAY
600 VDC



38 WAY
600 VDC



64 WAY
600 VDC



12 WAY
HPBOF
600 VDC



26 WAY
PBOF
600 VDC



26 WAY
HPBOF
600 VDC



30 WAY
PBOF
600 VDC



64 WAY
PBOF
600 VDC



KEY FEATURES

- 4 contacts
- Multiple mounting interfaces
- Rated for **6000m** WD mated and open face as standard, higher pressure available on application
- Oil filled (OF) available as standard, pressure balanced oil filled (PBOF) available for certain pin configurations (connector & bulkhead assemblies)
- Working voltage and current dependent on contact density and diameter.



4 WAY
3.3/4.5 kV

Pin Colour Code	
Contact Diameter	3.3
Wire Size	8 awg
Current	50 amps
Contact rating based on PTFE type C cable	





KEY FEATURES

- Up to **39** contacts
- Mixed contact sizing options and custom configurations
- Multiple mounting interfaces
- Rated for **6000m** WD mated and open face as standard, higher pressure available on application
- Oil filled (OF) available as standard, pressure balanced oil filled (PBOF) available for certain pin configurations (connector & bulkhead assemblies)
- Working voltage and current dependent on contact density and diameter.



1 WAY
600 VDC



5 WAY
600 VDC



9 WAY
600 VDC



25 WAY
600 VDC



37 WAY
600 VDC



39 WAY
600 VDC



KEY FEATURES

- Up to 8 contacts
- Mixed contact sizing options and custom configurations
- Multiple mounting interfaces
- Rated for **6000m** WD mated and open face as standard, higher pressure available on application
- Oil filled (OF) available as standard, pressure balanced oil filled (PBOF) available on request.
- Working voltage and current dependent on contact density and diameter.



8 WAY
600/4500 VAC

Pin Colour Code		
Contact Diameter	1.56	3.3
Wire Size	16 awg	8 awg
Current	26 amps	50 amps
Contact rating based on PTFE type C cable		



KEY FEATURES

- Multi size shell body
- **1 to 8 Channel Configurations**
- Multimode 50/125 and 62.5/125 versions
- Singlemode 9/125 Fibre
- Available as Patchcords and Pigtailed Bulkheads
- Right angled Plug End also available
- Pressure up to **6000 Psi (Mated)**
- Open face pressure up to **6000 Psi**
- Oil filled available as standard (OF)
- Tails with connections to suit (ST/SC/ etc.)

SIZE A



1 CHANNEL
SINGLEMODE
MULTIMODE



2 CHANNEL
SINGLEMODE
MULTIMODE



4 CHANNEL
SINGLEMODE
MULTIMODE



FIBRE OPTIC
SIZE A DATA SHEET

SIZE B



4 CHANNEL
SINGLEMODE
MULTIMODE



6 CHANNEL
SINGLEMODE
MULTIMODE



8 CHANNEL
SINGLEMODE
MULTIMODE



FIBRE OPTIC
SIZE B DATA SHEET



KEY FEATURES

- 12 contacts
- 1 & 2 Channel Configurations
- Multimode 50/125 and 62.5/125 versions
- Singlemode 9/125 Fibre
- Available as Patchcords and Pigtailed Bulkheads
- Right angled Plug End also available
- Pressure up to 6,000 Psi (Mated)
- Open face pressure up to 6000 Psi
- Oil filled available as standard (OF)
- Up to 26 amps
- Up to a working voltage of 1000 VDC dependant on pin/contact density and wire specification used.

E-SERIES: EXPANDED BEAM



1 CHANNEL - 12 WAY
SINGLEMODE / MULTIMODE
600 VDC



2 CHANNEL - 12 WAY
SINGLEMODE / MULTIMODE
600 VDC

MINI-E-SERIES: PHYSICAL CONTACT



2 CHANNEL - 2 WAY
SINGLEMODE / MULTIMODE
600 VDC

KEY FEATURES

- 2 Electrical Contacts
- 2 Fibre Optic Channels
- Singlemode 9/125 Fibre
- Multimode 50/125 and 62.5/125 versions
- Available as Patchcords and Pigtailed Bulkheads
- Right angled Plug End also available
- Pressure up to 6,000 Psi (Mated)
- Open face pressure up to 6000 Psi
- Oil filled available as standard (OF)
- Up to 600VDC & 26 amps





KEY FEATURES

- Fully Pressure Blocked Durable Design
- Right-angled and in-line configurations available
- Voltage ratings up to 4.5 kV
- Standard 316 Stainless Steel; options include Titanium and Aluminum
- Non-magnetic versions available
- Electrical, Coaxial, Optical, and Hybrid options available
- Depth rated up to 11,000 msw
- Certified by Lloyd's, DNV, RINA, and ABS per client specifications

PENETRATOR RANGE EXAMPLES

Min - Max No. of Ways	3 Way - 37 Way
Thread Type	7/16" - 2" UNF 1" - 1.5" NPT
Thread Length	11mm - 91mm
Depth Rating	Up to 11,000msw / 16,000psi
Material	SS 316L / Ti Grade 5 / Alu 6082-T6
Voltage	Up to 1000VDC (Standard) HV options available
Current Rating	Up to 150A
Tail Length/Type	Per Customer Request
Cable Length	Per Customer Request

OPTIONS:

- Field Installable.
- Bespoke design/configuration to suit customer requirements at no extra cost.
- Available in alternative materials.
- Alternative thread types available to suit.
- Tested and certified by Lloyd's, DNV, RINA and ABS as per client spec.

APPLICATIONS:

- ROV & AUV Systems
- Manned Submersibles
- Diving Bells
- Decompression chamber
- Escape lifeboat
- Rescue submarine
- Real-time monitoring and control links
- Subsea surveillance and monitoring arrays

Pin Colour Code	Contact Diameter	Wire Size	Current
	0.75	24 AWG	8 amps
	1.0	22 AWG	11 amps
	1.56	16 AWG	26 amps
	1.9	14 AWG	40 amps
	2.0	12 AWG	50 amps
	2.25	12 AWG	50 amps
	3.3	8 AWG	90 amps
	4.5	4 AWG	170 amps
	6.5	4 AWG	170 amps
	8.0	0 AWG	320 amps
Contact rating based on PTFE type C cable			
Derating Factors for Bundled Conductors			
Bundle #	Derating Factor (x Amps)		
2-5	0.8		
6-15	0.7		
16-30	0.5		

CREATIVE
RELIABLE
EFFICIENT



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