

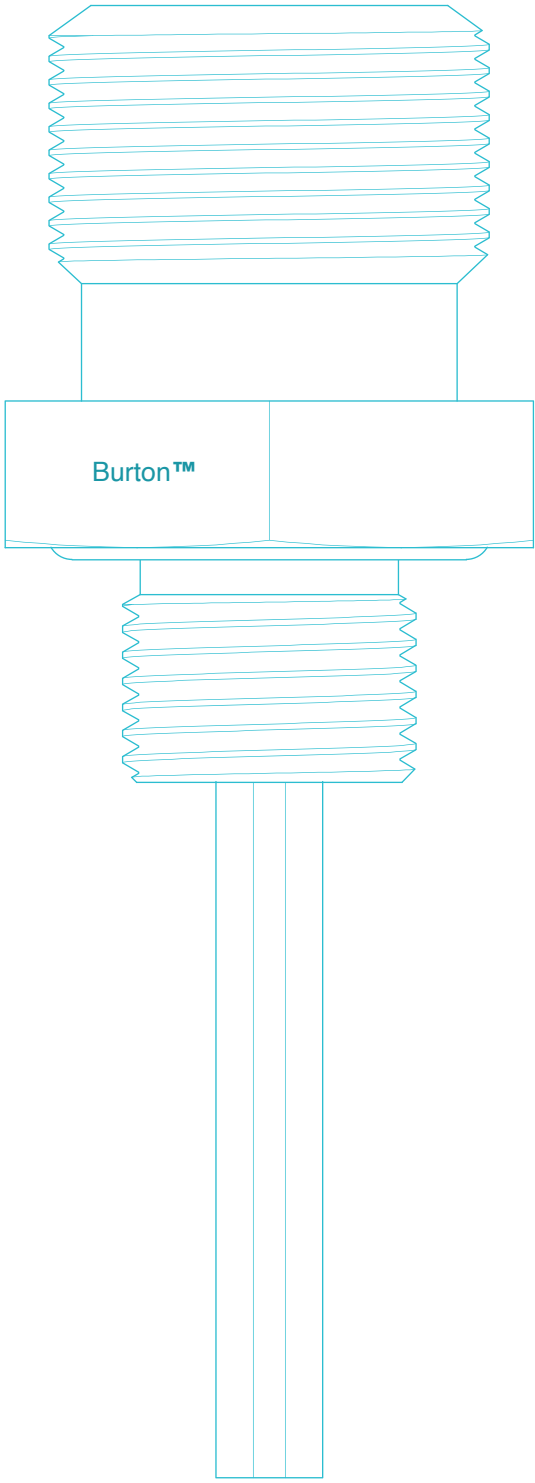
## Connector Overview

The Burton 5500 and 6600 series dry mate electrical connectors are built to withstand tough subsea conditions and deliver reliable, long-lasting performance.

With over 50 years of proven reliability in the ROV and offshore industries, Burton continues to set the standard for durable, high-performance connectivity.

The series is offered in a broad range of shell sizes, materials, and contact configurations to accommodate your specific application requirements. Options include moulded assemblies in Neoprene or Polyurethane, Pressure Balanced Oil-Filled (PBOF) designs, and fully custom-engineered solutions.

**Proven. Reliable. Ready for the challenge.**



### Specifications

|                  |                                                        |
|------------------|--------------------------------------------------------|
| Shell Sizes:     | 8                                                      |
| Contacts:        | 2 - 39                                                 |
| Voltage Rating:  | 600 Vdc - 5000 Vdc                                     |
| Current Rating:  | 10 to 220 Amps                                         |
| Ethernet Speed:  | Up to Gigabit on 1508, 2008, 2013 and 2021 pin layouts |
| Pressure Rating: | Up to 10,000 psi                                       |
| Temp Rating:     | -40°C to 90°C, -40°C to 190°F                          |
| Mating Cycles:   | >500                                                   |

### Materials and Finishes

|                            |                                                                      |
|----------------------------|----------------------------------------------------------------------|
| Contacts:                  | Gold plated, copper alloy                                            |
| Inserts:                   | Proprietary neoprene compounds                                       |
| Shells and coupling rings: | Passivated 316 stainless steel, other materials available on request |
| Overmould:                 | Neoprene, other materials available on request                       |
| Cable:                     | UL SOW-A                                                             |
| Pigtails:                  | MIL-W-16878                                                          |

## Connector Part Numbering

55

0

6

-

15

08

-

00

04

#### Series:

55 - 5500  
66 - 6600 Inverse of 5500

#### Voltage

0 - 600V  
1 - 1,000V  
2 - 2,000V  
3 - 3,000V  
5 - 5,000V

#### Style

A - Attachable  
P - PBOF  
R - Right Angle

#### Connector Type

01 CCP (Cable Connector Plug + Dummy Plug)  
02 CCR (Cable Connector Receptacle + Dummy Receptacle)  
R1 CCP/RA (Cable Connector Plug 90°)  
R2 CCR/RA (Cable Connector Receptacle 90°)  
P1 PBOF (Pressure Balanced Oil Filled Plug)  
P2 PBOF (Pressure Balanced Oil Filled Receptacle)  
A1 CCP (Attachable Cable Connector Plug)  
A2 CCR (Attachable Cable Connector Receptacle)  
06 FCR (Flange Connector Receptacle)  
07 BCR (Bulkhead Connector Receptacle)

#### Shell Size

09, 12, 15, 16, 20, 24, 32, 48

#### No of Contacts

**See face view sheets**

#### Special Designation

E - Ethernet  
PE - Protective Earth  
1T - Extended Shank  
RA - PBOF Only

#### Length in feet

0000 = Attachable/Dummy, 0001 = 1 Foot, 0004 = 4 Feet, 0015 = 15 Feet, 0020 = 20 Feet

### Part Number Examples

|              |                                                                                           |
|--------------|-------------------------------------------------------------------------------------------|
| Description: | 55 Series: Cable Plug, 8 pin, 15 shell, c/w 4 foot SOOW cable with standard wiring        |
| Part Number: | 5501-1508-0004                                                                            |
| Description: | 55 Series: Flange Receptacle, 21 pin, 20 shell, c/w 4 foot wire and protective earth wire |
| Part Number: | 5506-2021-PE04                                                                            |

Subsea Supplies holds a wide range of Electrical, Coaxial & Category Cables sheathed in PU, PE & Neoprene together with oil resistant hose and equipment wire all ideally suited to the Burton Connector Series for the manufacture of stock and bespoke assemblies.