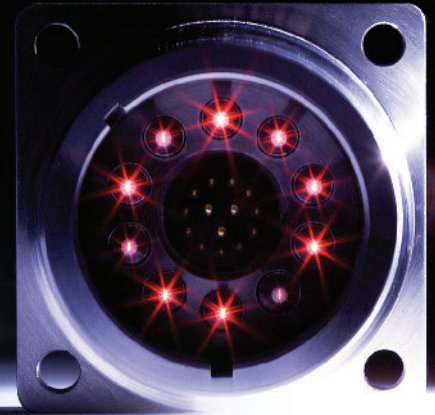




MILLENNIUM SERIES

BIRNS' Millennium™ miniature, high-density metal shell connectors set the benchmark for elevated bandwidth delivery—they are the most advanced connectors of their type, and are meticulously qualified and tested. Created for rigorous use, the BIRNS Millennium series provides versatile, high performance solutions, delivering maximum data and power for extreme depth applications.



High Performance . . . Under Pressure

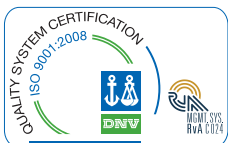
Tailored for demanding power or challenging signal applications and electromechanical applications (to 3 tons), the series is rated to 500 volts, and rated to withstand high open face pressure to 6,000m.

This versatile, high performance connector series can be configured for high voltage—hybrid electro-optical options can include both high voltage (3.6kV) and low voltage (600V) conductors—along with a wide range of special configurations for a diverse suite of applications. They reliably transmit huge data streams while minimizing electrical noise—typical loss recorded for a cable assembly of the series is <1dB, in accordance with ANSI/TIA/EIA-455 for fiber optic return loss test procedures.

Each connector provides elevated contact density with 50 microns of hard gold contact plating, and has standard exclusive BIRNS features like dual self-guiding stainless steel keys and keyways for positive indexing. They are engineered with a 15° molded internal o-ring lead-in chamfer specially angled to ensure the dual o-rings' longevity and reliability. Each insert's solder pots are scalloped and face out from center for ease of wiring access. Solder pots are insulated with GRE part way up the shaft and after termination, heat shrink tubing is placed over the entire conductive area for a completely insulated termination, which prevents electrical interference between pins.

EXCLUSIVE FEATURES

- Rated for open faced high pressure to 6km
- High contact density for maximized payload efficacy
- 15° lead-in angle construction for dual o-ring longevity and reliability
- Thick gold plating of contacts per MIL-G-45204, Type II, Class 1 (50 microns of hard gold)
- Heat-treated BeCu sockets
- Positive stainless steel stops preclude over-tightening
- Square "Acme" threads resist mechanical damage
- Redundant dual o-rings for effective sealing
- Configurable for both solid and oil-filled cables
- Available in competitors' mounting configurations to facilitate replacement
- Permit the use of 22, 20, 16, 14, 12 and 10 AWG contacts in the same connector, without need for cumbersome incompatible "Regular and Long" shell sizes



ISO 9001:2008 Certified

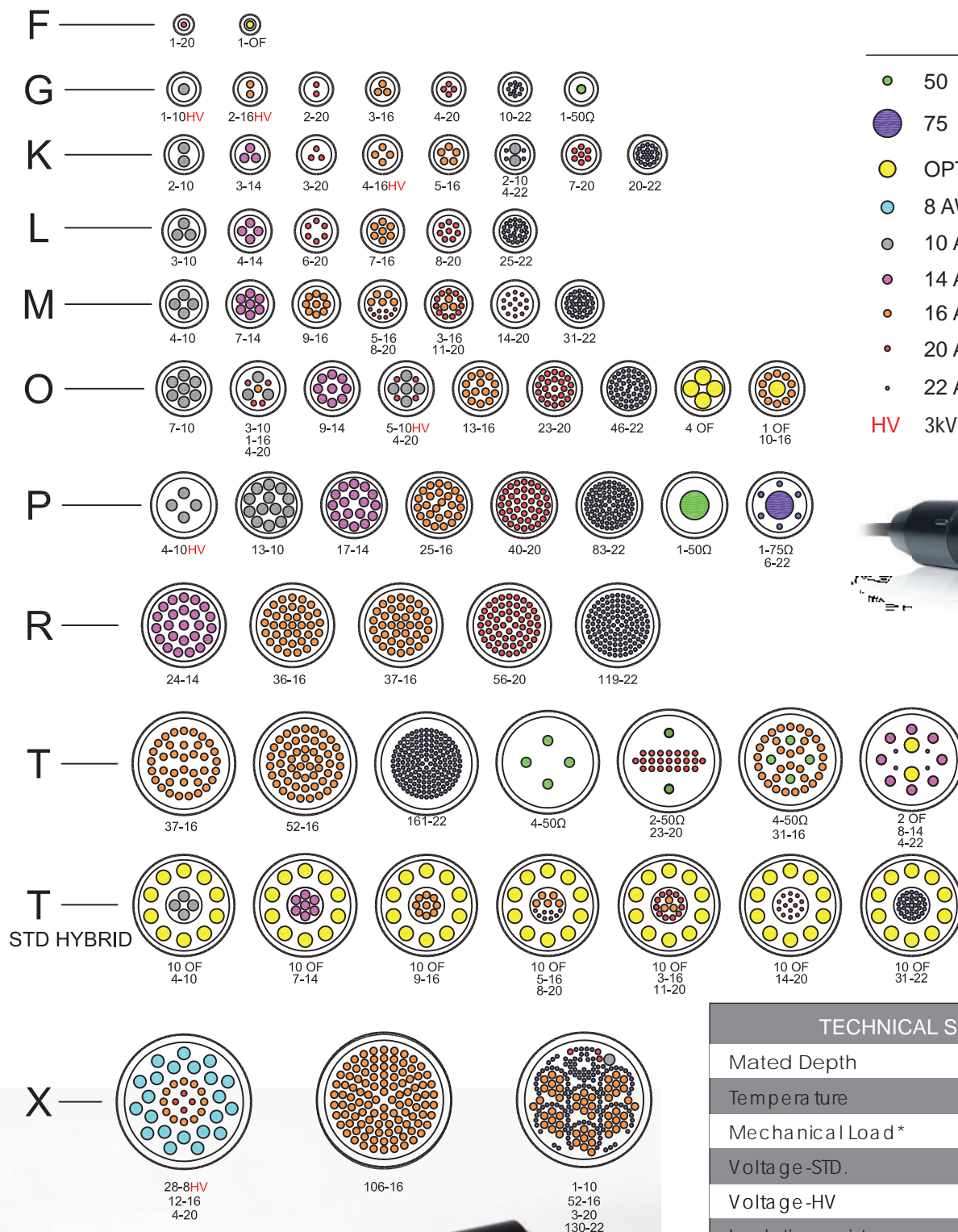


De Hoogjens 22
4254 XW
Sleeuwijk
The Netherlands

Tel: +31 183 307900
Fax: +31 183 307910
Email: info@seascope.nl
www.seascope.nl

High Performance . . .
Under Pressure

PIN CONFIGURATIONS



LEGEND

- 50
- 75
- OPTICAL FIBER (OF)
- 8 AWG (10mm²)
- 10 AWG (8mm²)
- 14 AWG (3mm²)
- 16 AWG (2mm²)
- 20 AWG (.8mm²)
- 22 AWG (.4mm²)
- HV 3kV



TECHNICAL SPECIFICATIONS

Mated Depth	6,000m
Temperature	-5°C to 60°C
Mechanical Load *	500kg
Voltage-STD.	500VDC
Voltage-HV	3,000V
Insulation resistance	300M (min)

*Requires BIRNS' mechanical termination