



NPT PENETRATORS

BIRNS provides the industry's highest volume of cost-effective, in-house hydrostatic and helium pressure testing. Thus, BIRNS penetrators are the only ones in the industry that can be ordered with inclusive pricing and lead time for stringent ABS/DNV certification.

High Performance . . . Under Pressure®

BIRNS penetrators safely and reliably transmit electrical power or signal through a pressure boundary, decrease the complexity of electrical systems and reduce dependence on operator skill. They are extremely rugged, require minimal maintenance, and are engineered for long-term deployment.

BIRNS NPT (National Pipe Thread) penetrators have standard tapered pipe threads and are widely used on diving bells and decompression chambers. They can be configured for a wide range of demanding applications. They are constructed of AISI 316 stainless steel, passivated per ASTM A967-05. They are rated for use up to 80°C (176°F) when fabricated with neoprene (polychloroprene) cable jackets, or up to 95°C (203°F) with optional CSPE cable jackets.

Available sizes:

- P13N (.50" NPT up to 4 conductors)
- P19N (.75" NPT up to 12 conductors)
- P25N (1.0" NPT up to 16 conductors)

HIGHLY CUSTOMIZABLE

BIRNS can customize penetrators to specific requirements, including:

- Cable length (inboard and outboard)
- Conductor quantity and size
- Straight or 90° cable molding
- Cable jacket material
- Test methods and witnessing

BIRNS NPT penetrators meet or exceed ABS and DNV requirements when fabricated with Low Smoke Zero Halogen (LSZH) cables inboard. All BIRNS penetrators are individually serialized, certified and tested in accordance with BIRNS' ABS-approved test procedure ETP-6510-101.

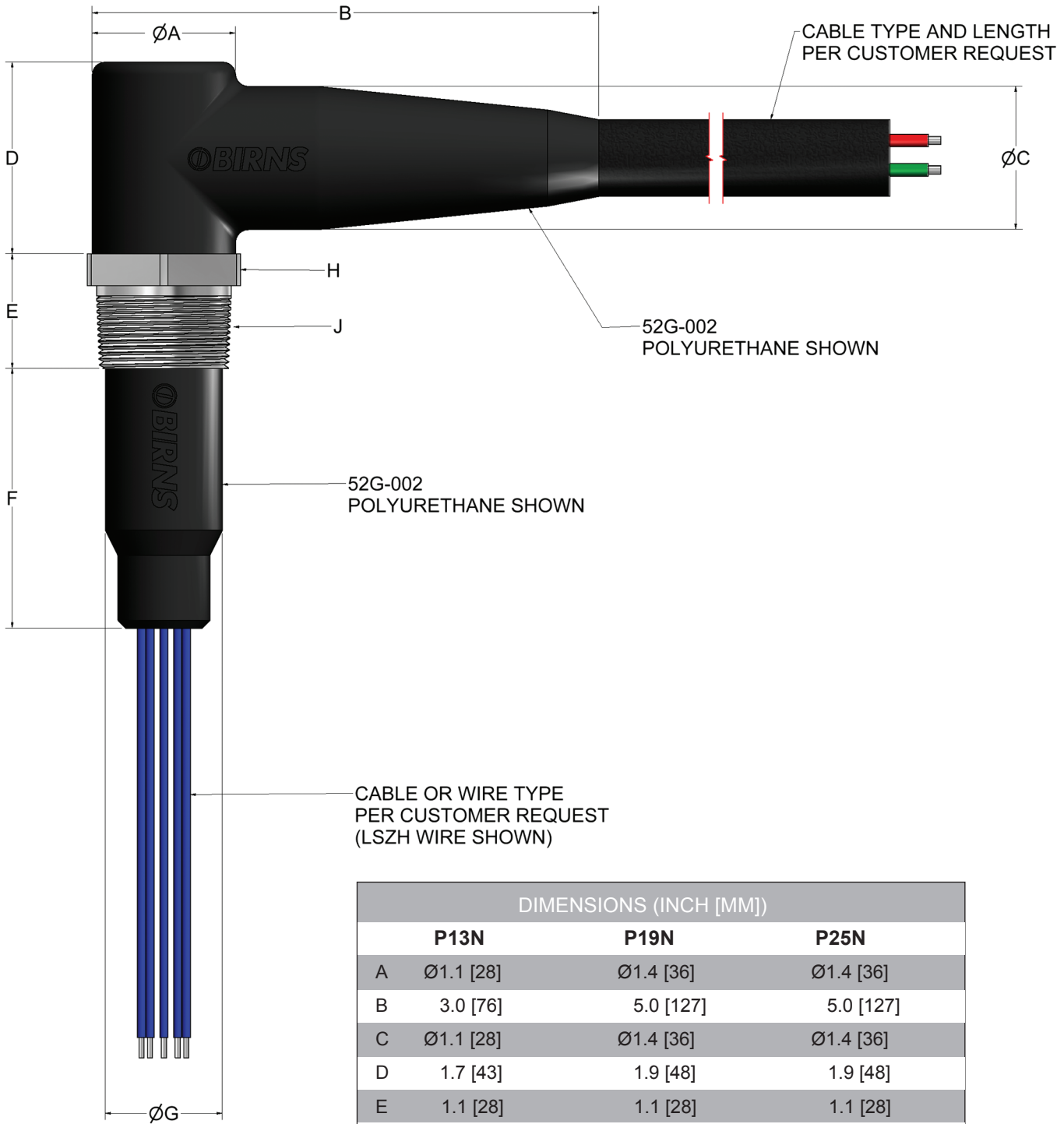


BIRNS' Quality Management System is
ISO 9001:2015 Certified;
BIRNS is NAVSEA PRO-020 Certified

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*High Performance . . .
Under Pressure®*

SPECIFICATIONS



DIMENSIONS (INCH [MM])			
	P13N	P19N	P25N
A	Ø1.1 [28]	Ø1.4 [36]	Ø1.4 [36]
B	3.0 [76]	5.0 [127]	5.0 [127]
C	Ø1.1 [28]	Ø1.4 [36]	Ø1.4 [36]
D	1.7 [43]	1.9 [48]	1.9 [48]
E	1.1 [28]	1.1 [28]	1.1 [28]
F	1.7 [43]	2.5 [64]	2.5 [64]
G	Ø.7 [18]	Ø.9 [23]	Ø1.2 [31]
H	1.3 HEX FLATS	1.5 HEX FLATS	1.5 HEX FLATS
J	1/2" NPT	3/4" NPT	1" NPT