



UTS (UN) 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 UTS (UN) penetrators have standard UN-2A mounting threads, are widely used on diving bells, submarines and submersibles, and can be configured for a wide range of demanding applications. Standard pressure rating is 70 bar (1,000 PSI / 2,300 FSW) and can be tailored to higher ratings.

Available sizes:

- P19 (.75-16 UNF-2A)
- P25 (1.0-14 UNS-2A)
- P32 (1.25-12 UNF-2A)
- P38 (1.50-12 UNF-2A)

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 UTS (UN) penetrators are constructed of AISI 316 stainless steel, passivated per ASTM A967-05. All cables are mechanically reinforced with high strength potting compound and seal-overmolded with polyurethane.

BIRNS 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.

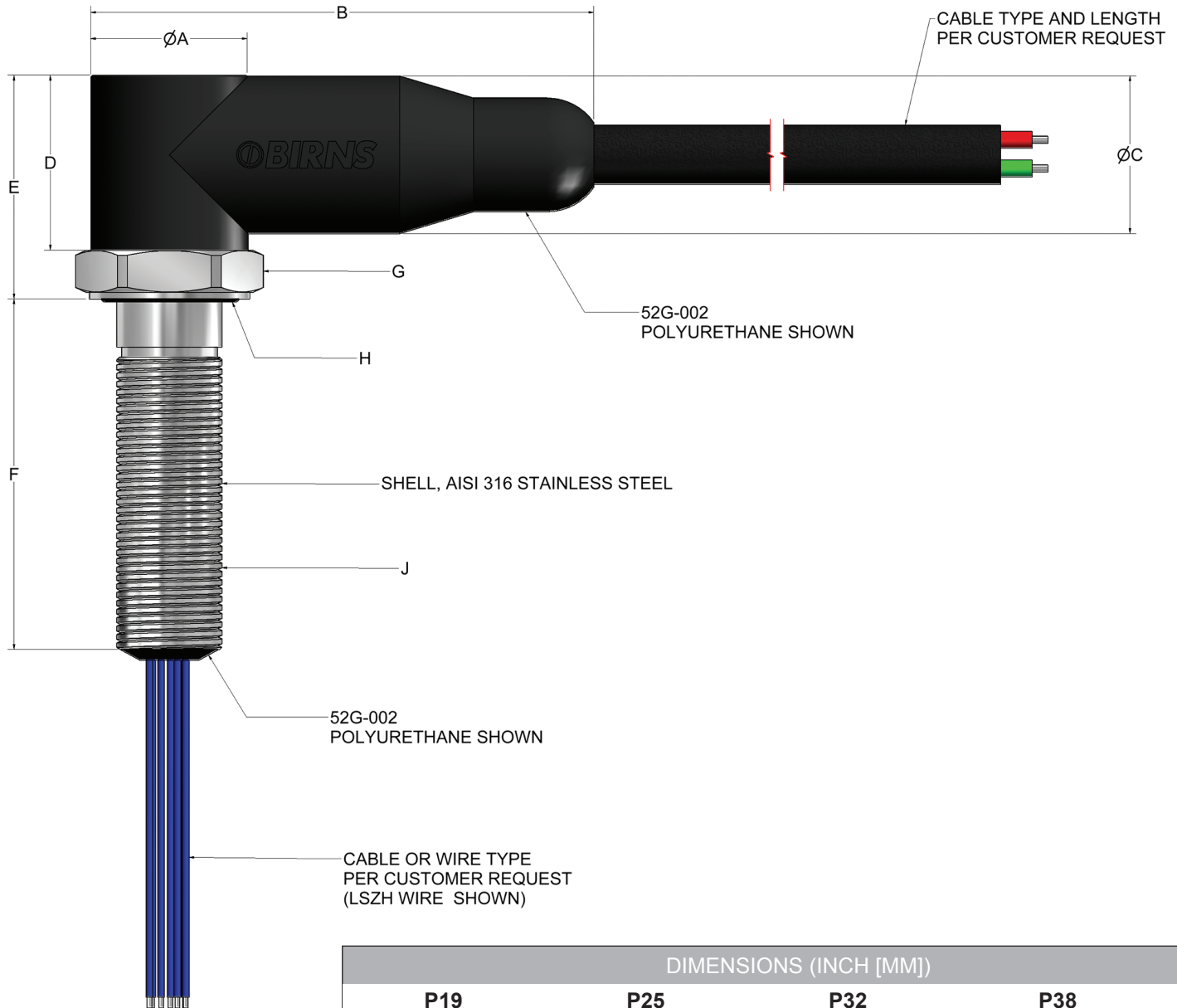


BIRNS' Quality Management System is
ISO 9001:2015 Certified;
BIRNS is NAVSEA PRO-020 Certified

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*High Performance . . .
Under Pressure®*

SPECIFICATIONS



DIMENSIONS (INCH [MM])				
	P19	P25	P32	P38
A	Ø1.5 [39]	Ø1.9 [48]	Ø1.9 [48]	Ø2.8 [71]
B	5.0 [127]	4.9 [125]	5.9 [150]	4.2 [107]
C	Ø1.5 [38]	Ø1.7 [43]	Ø1.9 [48]	Ø1.9 [48]
D	1.8 [46]	2.4 [61]	2.1 [53]	2.9 [74]
E	2.4 [61]	3.1 [79]	2.7 [69]	3.6 [91]
F	3.6 [90]	4.1 [104]	3.3 [84]	4.5 [114]
G	1.8 HEX FLATS	2.3 HEX FLATS	2.0 HEX FLATS	2.5 HEX FLATS
H	59A-047	59A-193	59A-095	59A-183
J	3/4-16 UNF-2A	1-14 UNS-2A	1 1/4 -12 UNF-2A	1 1/2 UNF-2A