SPECTEC
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w w w . s p e c t e c s e n s o r s . c o m

3001 Bulletin
Connector / Cable Assemblies
For Sensor / Pickup Interface
MS3116 - BAYONET TYPE

PRODUCT DESCRIPTION

SPECTEC's connector/cable assemblies with cable clamp/boot assembly are designed to provide an interface between sensors and signal conditioners or instrumentation. These will mate with our standard 'B', 'B4' & 'B6' (2, 4 and 6 pin) sensors.

CONNECTOR ASY:

Similar to socket style connector Amphenol MS3116Fx-xS and PT06E-x-xS. Made with RoHS compliant components. Temperature rated to 257°F (125°C).

The inverse pin style connector is available as 3001P.

ORDER INFORMATION: Connector Assembly

3001 - 0 0 ☐ **Environmental Resisting**

Number of Contacts

2 – 2 Contact 'B'
4 – 4 Contact 'B4'
6 – 6 Contact 'B6'

CONNECTOR / SHIELDED CABLE ASY:

Connector assembly with installed PVC insulated cable (22-24 AWG). Same connector options as above apply. Temperature rated to 221°F (105°C).

Cable Options:
High Temp 5HT: 392°F (200°C) PTFE, MIL SPEC, 22-24 AWG
        P/N Example: 3001-xxxTFE

BNC versions: 176°F (80°C) PVC, COAX, RG58
        P/N Example: 3001-3xx
Please Note: Some option combinations may not be possible. Contact Sales for compatibility and additional custom options.

ORDER INFORMATION: Connector / Cable Assembly
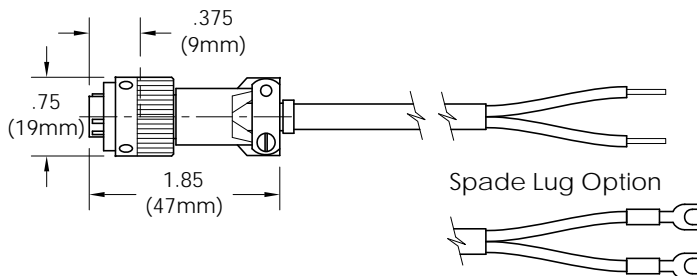
3001 - ☐ ☐ ☐ **Environmental Resisting**

Number of Contacts & Conductors

2 – 2 Pin 'B'
4 – 4 Pin 'B4' w/ 3 conductor cable
5 – 4 Pin 'B4' w/ 4 conductor cable
6 – 4 Pin 'B4' w/ 5 conductor cable
7 – 6 Pin 'B6' w/ 5 conductor cable
8 – 6 Pin 'B6' w/ 6 conductor cable
9 – 6 Pin 'B6' w/ 4 conductor cable

Shielded Cable Length ft. (m)

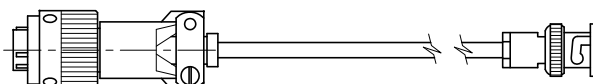|				
A – 1'	(0.3m)			
1 – 3'	(1m)	**5** – 33'	(10m)	
2 – 6'	(2m)	**6** – 50'	(15m)	
3 – 10'	(3m)	**7** – 75'	(23m)	
4 – 20'	(6m)	**8** – 100'	(30m)	

Cable Termination

1 – Stripped leads (tinned)
2 – Spade lugs
3 – BNC Connector (2 Contact only)

Connector w/ Stripped Leads
Dimension in Inches (mm)

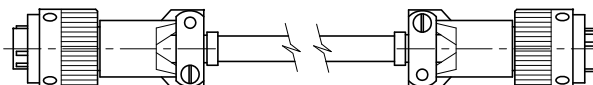
.375 (9mm)
.75 (19mm)
1.85 (47mm)
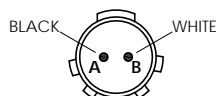
Spade Lug Option

Connector w/ BNC Connector

Connector w/ Connector
Contact Sales for Custom connector and cable options

COLOR CODE (PIN TO WIRE)
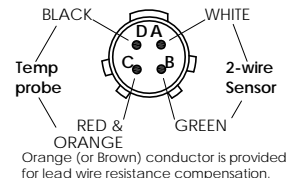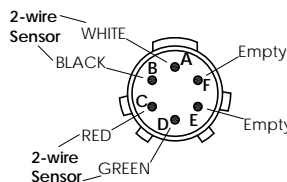
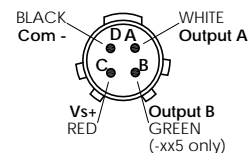2 PIN (3001-xx2) for 2-wire sensors (magnetic variable reluctance, RF sensors)

BLACK — A
WHITE — B

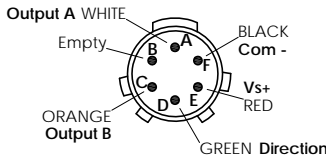4 PIN with 5 conductor cable (3001-xx6) for 2-wire sensors with temp probe

BLACK — D A — WHITE
Temp probe — C B — 2-wire Sensor
RED & ORANGE — GREEN

Orange (or Brown) conductor is provided for lead wire resistance compensation.

6 PIN with 4 conductor cable (3001-xx9) for Dual 2-wire sensors

2-wire Sensor — WHITE / BLACK — B A F — Empty
C — D E — Empty
RED
2-wire Sensor — GREEN

4 PIN with 3 or 4 conductor cable (3001-xx4, -xx5) for digital sensors with single or dual output

BLACK Com - — D A — WHITE Output A
C B
Vs+ RED — Output B GREEN (-xx5 only)

6 PIN with 5 conductor cable (3001-xx7) for digital sensors with dual output and direction

Output A WHITE — B A F — BLACK Com -
Empty — C D E — Vs+ RED
ORANGE Output B — GREEN Direction

6 PIN with 6 conductor cable (3001-xx8) for digital sensors single output with temp probe

Output WHITE — B A F — BLACK Com -
BLUE resistance compensation — C D E — Vs+ RED
ORANGE — Temp probe — GREEN