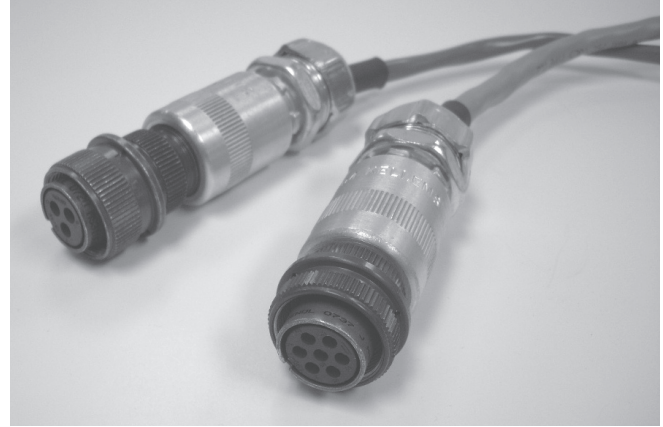


# General Specifications

GS 11M12WZ-01-E

# Specifications for model WZ Heater and Signal Cables for Oxygen Detectors

The WZ-H cables supplied by Yokogawa Corporation of America (YCA) are compatible with all Yokogawa ZR22, ZR402, and AV550G models. The purpose of these cables is to transmit the signal from the sensor/detector to the analyzer. Additionally, the cabling provides for electrical input to the heater assembly within the detector for cell temperature control.



WZ-H-6S & 6H High Temperature Cable									
Number of Conductors	Number of Conductor Pairs	AWG size	Conductor Strand	Nominal Insulation Thickness FEP		Nominal Jacket Thickness		Nominal Outside Diameter	
				inches	mm	inches	mm	inches	mm
7	3 + single drain	16	19/.0117	0.007"	0.178	0.012	0.81	0.295	8.26

## Construction

- **Conductor:**  
3 Pair Shielded CL2P CMP AWG 16/19 x 0.0117" TC FEP/ FEP
- **Insulation:**  
FEP 0.007" Wall min. O.D. = 0.071" to 0.073"
- **Shield:**  
Aluminum / Mylar Shield with AWG18/7 X 26 TC Drain Wire
- **Jacket:**  
Gray FEP 0.012" wall  
Temperature Range: -80°C to 200°C (-122°F to 392°F)
- **Braid:**  
None
- **Voltage:**  
UL 300V Power Limited
- **Capacitance:**  
22pF/ft Nominal
- **Weight:**  
67lbs. /1000ft.
- **Twist Lay:**  
2" Lay on pairs, 6" Lay on cable
- **Compliances:**  
NEC Article 725-CL2P  
NEC Article 800-CMP  
PCC FT6-C(UL) (CMP only)
- **Color Coded**  
Red/Black  
Green/Black  
White or Clear/Black
- **Cable markings:**  
E111036 TYPE CL2P-E130356 TYPE CMP 16AWG (UL) FEP/FEP

WZ-H-3H High Temperature Cable									
Number of Conductors	Number of Conductor Pairs	AWG size	Conductor Strand	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal Outside Diameter	
				inches	mm	inches	mm	inches	mm
3	1 + single drain	14	19/.0147	0.006	0.152	0.010	0.254	0.188	4.775

### ■ Construction:

- **Conductor:**

2 Conductor, Shielded CL2P CMP AWG 14/19 x 0.0147"  
Tinned Copper FEP/FEP

- **Insulation:**

FEP 0.006" Wall min. O.D. = 0.082" to 0.084"

- **Shield:**

Aluminum / Mylar Shield with AWG16/19 Tinned Copper  
Drain Wire

- **Jacket:**

Gray FEP 0.010" wall, O.D. 0.188" (0.225" max)  
Temperature Range: -80°C to 200°C (-122°F to 392°F)

- **Braid:**

None

- **Voltage:**

UL 150V Power Limited

- **Capacitance:**

42pF/ft Nominal

- **Weight:**

42lbs. /1000ft.

- **Twist Lay:**

2" Lay on pair

- **Compliances:**

NEC Article 725-CL2P  
NEC Article 800-CMP  
C(UL) (CMP only)

- **Color Coded**

Black/White (Clear)

- **Cable markings:**

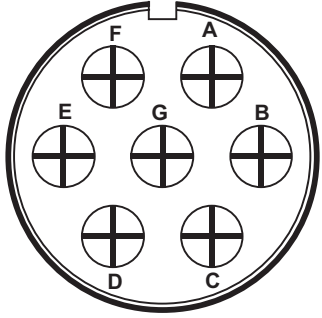
E111036 TYPE CL2P 200C FEP/FEP 14AWG (UL)

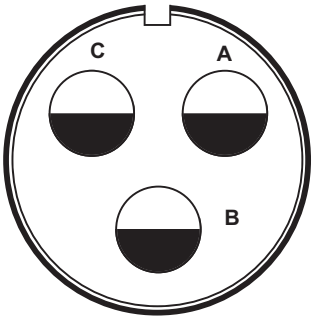
## ■ Part numbers for ordering WZ-H high temperature cables

MODEL	
WZ-H	
Cable Length	
-3H-0005	5' Heater Cable (3 Conductor)
-6H-0005	5' Heater / Autocal cable for IAC24 application
-6S-0005	5' Signal Cable (6 Conductor)
-3H-0010	10' Heater Cable (3 Conductor)
-6H-0010	10' Heater / Autocal cable for IAC24 application
-6S-0010	10' Signal Cable (6 Conductor)
-3H-0015	15' Heater Cable (3 Conductor)
-6H-0015	15' Heater / Autocal cable for IAC24 application
-6S-0015	15' Signal Cable (6 Conductor)
-3H-0020	20' Heater Cable (3 Conductor)
-6H-0020	20' Heater / Autocal cable for IAC24 application
-6S-0020	20' Signal Cable (6 Conductor)
-3H-0025	25' Heater Cable (3 Conductor)
-6H-0025	25' Heater / Autocal cable for IAC24 application
-6S-0025	25' Signal Cable (6 Conductor)
-3H-0030	30' Heater Cable (3 Conductor)
-6H-0030	30' Heater / Autocal cable for IAC24 application
-6S-0030	30' Signal Cable (6 Conductor)
-3H-0040	40' Heater Cable (3 Conductor)
-6H-0040	40' Heater / Autocal cable for IAC24 application
-6S-0040	40' Signal Cable (6 Conductor)
-3H-0050	50' Heater Cable (3 Conductor)
-6H-0050	50' Heater / Autocal cable for IAC24 application
-6S-0050	50' Signal Cable (6 Conductor)
-3H-0100	100' Heater Cable (3 Conductor)
-6H-0100	100' Heater / Autocal cable for IAC24 application
-6S-0100	100' Signal Cable (6 Conductor)
-3H-0200	200' Heater Cable (3 Conductor)
-6H-0200	200' Heater / Autocal cable for IAC24 application
-6S-0200	200' Signal Cable (6 Conductor)
-3H-0500	500' Heater Cable (3 Conductor)
-6H-0500	500' Heater / Autocal cable for IAC24 application
-6S-0500	500' Signal Cable (6 Conductor)
/QF	Quick Disconnect with Flex Conduit Adapter (1/2" NPTM)

## ■ General Specifications For /QF Option, Amphenol Connectors

### MS/Standard MS3106A-\*\* Straight Plug

<b>Insert Arrangement</b>	<b>MS3106A16S-1</b>	
<b>Service Rating</b>	<b>A</b>	
<b>Contact Size</b>	<b>16</b>	
<b>Number of Contacts</b>	<b>7</b>	

<b>Insert Arrangement</b>	<b>MS3106A16-10</b>	
<b>Service Rating</b>	<b>A</b>	
<b>Contact Size</b>	<b>12</b>	
<b>Number of Contacts</b>	<b>3</b>	

MS-A Class connector applications include communications equipment, computers and shipboard installations where mechanical forces and physical parameters are not subjected to extreme or rapid environmental changes.

#### • Shells:

Shell components are fabricated from high grade aluminum alloy. They are electrically conductive, and have a cadmium plate finish with an olive drab chromate post treatment for added corrosion resistance. The alignment notch is located at the 12 o'clock position.

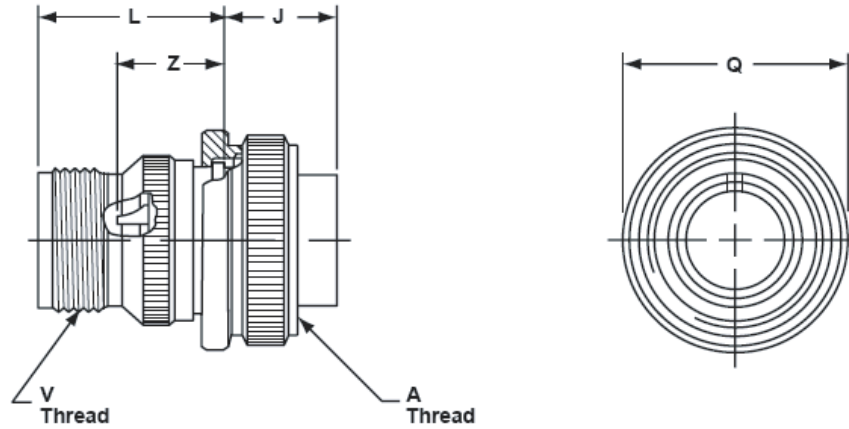
#### • Contacts:

Contacts are solder type and are machined from a copper alloy with a silver plated finish. Size 16 and 12 contacts incorporate a closed entry design.

#### • Inserts:

Inserts are made of resilient neoprene. This offers a high dielectric strength, high arc resistance and resistance to vibration. The design allows for pressurization of either the pin or socket insert.

Shell Size	A	J	L	Q	V	Z
	Thread Class	$\pm .005$	$\pm .030$	Max Diameter	Thread Class 2A	$\pm .045$
16S	1.0000-20UNEF	.531	.937	1.250	.8750-20UNEF	.562
16	1.0000-20UNEF	.719	1.124	1.250	.8750-20UNEF	.812



straight plug