

General Specifications

Model WU11 Interconnection Cable for SENCOM sensor

The WU11 interconnection cable is specified for reliable transfer of digital signals between the SENCOM sensors and Yokogawa FLXA analyzer.

It is especially designed to be installed in a heavy industrial environment.

The cable is water proof, allowing it to be submerged as a whole.

The cable has a wide temperature operation range which is sufficient for most of the applications.
The materials used for the cable are flame retardant to resist the spread of fire.

Features

- Double shielding to protect connected devices for interference from high voltages and currents
- Available in four different lengths. Long cable runs up to 100 m (328 ft) are possible
- Easy connection to a SENCOM pH Sensor by one 5- pins molded connector, and to the analyzer by 5 wired pins
- Flame retardant recognized by UL (file no. E124763) and CSA (file no. LL105324)
- IP67
- Operating temperature from - 40°C up to + 85°C (-40°F up to +185°F)



GENERAL SPECIFICATIONS WU11

Cable materials

Twisted pair cables	: Tinned copper conductors 0.25 mm ² (24 AWG)
Outside shield	: Foil shield with drain wire, 125% coverage. Braid, tinned copper 0.008 mm ² (38 AWG), 95% coverage
Insulator	: Polyethylene for the twisted pair cables Color twisted pair #1: green / yellow Color twisted pair #2: brown / white Polyvinylchloride for the outside jacket, solid extrusion Color black

Connector materials

Housing	: Polybutylene terephthalate UL94V-0, color: black
O-ring	: Nitrilbutadienrubber, color: black
Nut	: Brass
Contact finishing	: Gold plated

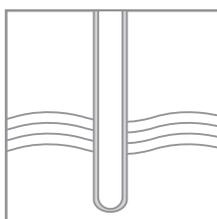
Electrical specifications

Twisted pair cables	: Capacity < 50 pF/m Resistance < 100 Ω/km Characteristic Impedance 120 Ω
Connector	: Maximum rated current 5 A Maximum voltage 125 V

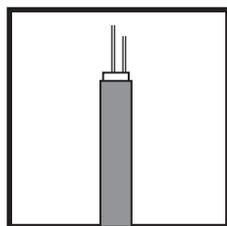
Operational specifications

Temperature	: - 40°C up to + 85°C (-40°F up to +185°F)
Water Proof	: IP67 (conform IEC60529)

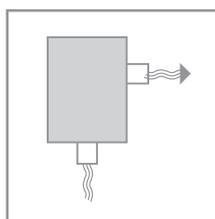
System configuration



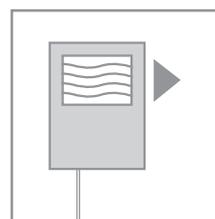
Sensors



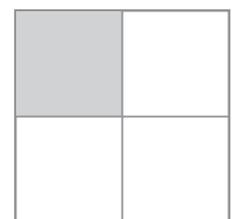
Cables



Fittings



Transmitters



Accessories

DIMENSIONS

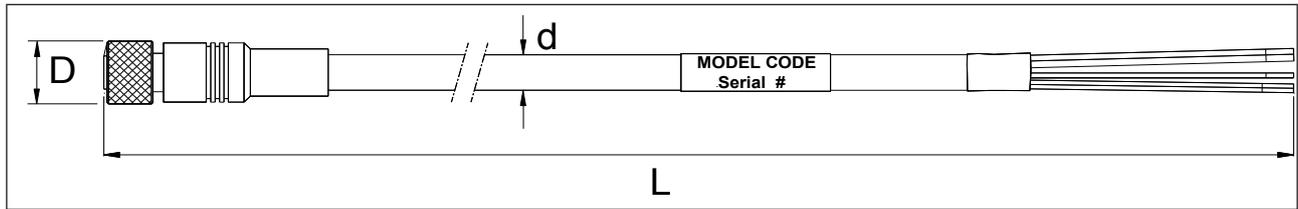


Figure 9: Dimensions of WU11 cable

Length (L) : 3, 5, 10, 20 m (9.8, 16.4, 32.8, 65.6 ft)
 Diameter connector (D) : 10.6 ± 0.2 mm (0.417 ± 0.008 inch)
 Diameter cable (d) : 5.8 ± 0.1 mm (0.228 ± 0.004 inch)
 Wire pins : 8×1.3 mm (0.31×0.05 inch)

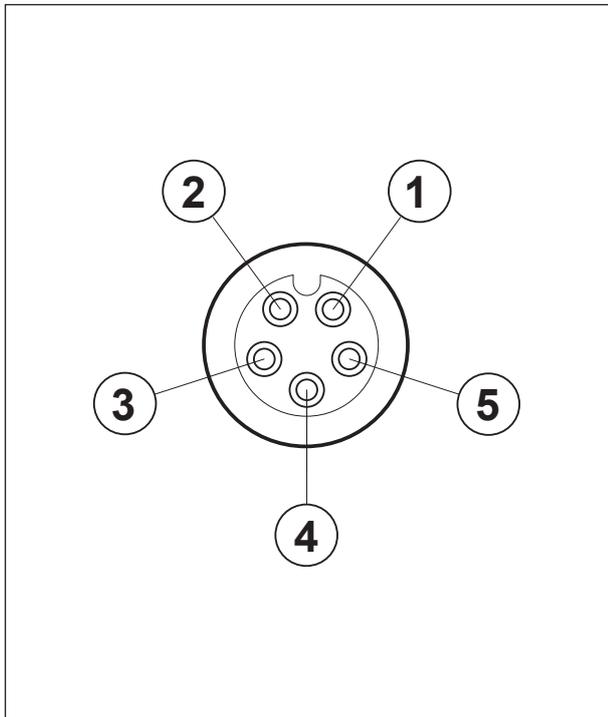


Figure 10: Front view cable connector with gold plated contacts

CONNECTOR LAYOUT

Definition connector pin to cable

Pin #	Twisted pair #	Wire color	Wire number
1	1	yellow	83
2	1	green	84
3	2	brown	87
4	drain	black	82
5	2	white	86

Connection cable to FLXA analyzer

Signal Description	Wire color	Wire number	FLXA terminal
Supply +	brown	87	87
Supply Gnd	white	86	86
Data +	green	84	84
Data -	yellow	83	83
Shield	black	82	82

Model and Suffix Codes

Model	Suffix	Description
WU11		
Conn. type	-M9	M9 connector
Cable length	-03	3 m (9.8 ft)
	-05	5 m (16.4 ft)
	-10	10 m (32.8 ft)
	-20	20 m (65.6 ft)
Cable finishing	-WP	Wire pins
Jacket material	-V	PVC

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