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 60 m (197 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 (fileno. E124763) and CSA (fileno. LL105324)
- IP67

Insulator

 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 mm² (24 AWG)

 Outside shield
 : Foil shield with drain wire, 125%
 - coverage. Braid, tinned copper 0.008 mm² (38 AWG), 95% coverage : 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	: Nitrilbutadieenrubber, 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 up to + 85°C (-40 up to +185°F)
Water Proof	: IP67 (conform IEC60529)

Image: Sensors Cables Fittings Transmitters Accessories



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System configuration

DIMENSIONS

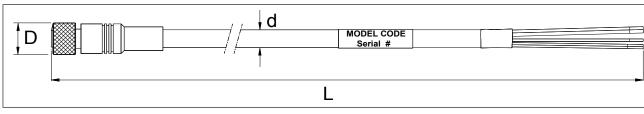


Figure 9: Dimensions of WU11 cable

Length (L)

: 2, 3, 5, 10, 20 and 30m (6.6, 9.8, 16.4, 32.8, 65.6, 98.4 ft)

Diameter connector (D) : 10.6 ± 0.2 mm (4.17 ± 0.08 inch)

Diameter cable (d) Wire pins : 10.6 ± 0.2 mm (4.17 ± 0.08 inch) : 5.8 ± 0.1 mm (2.28 ± 0.04 inch) : 8 x 1.3 mm (3.1 x 0.5 inch)

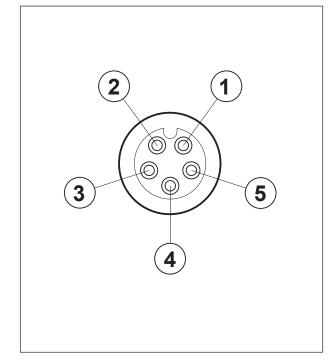


Figure 10: Front view cable connector with gold plated contacts

CONNECTOR LAYOUT

Definition connector pin to cable

Pin #	Twisted	Wire	Wire
	pair #	color	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	S	Suffix		Description
WU11				SENCOM cable
Connector	-N	V 9		M9 female connector for sensor
type				connection
		-02		2 meter (only available with CN finishing)
Cable		-03		3 meter (only available with WP finishing)
length		-05		5 meter (only available with WP finishing)
		-10		10 meter (only available with WP finishing)
		-20 -30		20 meter (only available with WP finishing)
				30 meter (only available with CN finishing)
Finishing		-V	VP	Wire pin for terminal connection
	-CN		ΩN	Straight connector M9 male
Jacket mat	terial -V		-V	PVC
-S		-S	PVC, Shielded connector(s)	

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