

Instrumentation Cable



Description

Syscor's sensor probes are manufactured with instrumentation cable specifically designed and certified for applications in the petroleum industry. The robust, chemically resistant insulation protects from extreme environmental conditions and UV radiation. In addition, the cable is shielded to reject electromagnetic interference.

Specifications

Construction	
Component 1	4 x 1 COND
Conductor	20 (7/28) AWG Tinned Copper
Insulation	0.016 inch. Wall, Nom. TPE
Colour Code	Black, Red, White, Green
Cable Assembly	4 Components Cabled
Twists	6.0 Twists/foot (min.)
Orientation	Arranged from inside layer to outside layer
Core Wrap	Nonwoven Polyester Tape, 25% overlap, min.
Shield	Alum/Mylar Tape, 25% overlap, min.
Foil Direction	Foil Facing In
Drain Wire	20 (7/28) AWG Tinned Copper
Jacket	0.045 in. Wall, Nom. TPE
Color(s)	Black
Ripcord	1 End 810 Denier Nylon
Label	ALPHA WIRE.* P/N 45464 4C 20 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM 20237/21918 125C 300 V OR CRU AWM I/II A/B 125C 300 V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code

Physical and Mechanical Properties

Temp. Range	-50 to 125°C
Bend Radius	10 X cable diameter
Pull Tension	44 lbs. max.
Sunlight Res.	Yes

Electrical Properties

Voltage Rating	300 V _{RMS}
Conductor DCR	10.2 Ω/1000ft. @ 20°C, Nominal
OA Shield DCR	8.2 Ω/1000ft. @ 20°C, Nominal

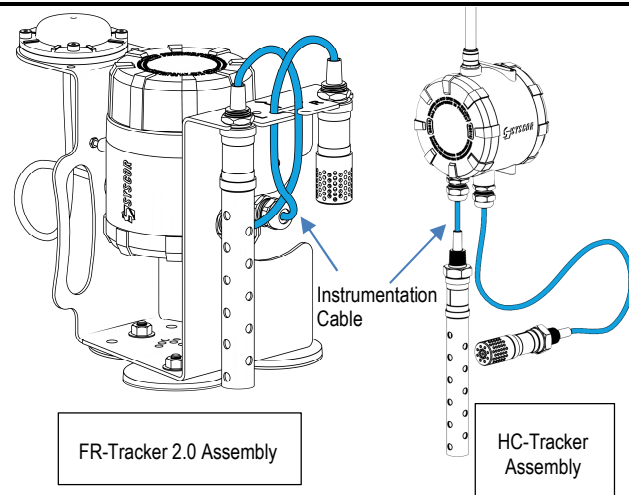
Certification

UL	AWM/STYLE 20237 125°C / 300 V _{RMS}
	PLTC 105°C
	AWM/STYLE 21918 125°C / 300 V _{RMS}
CSA International	C(RU) AWM I/II A/B FT1 125°C / 300 V _{RMS}
	SUN RES (Black only)
Other	PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED
CE	EU Low Voltage Directive 2014/35/EC

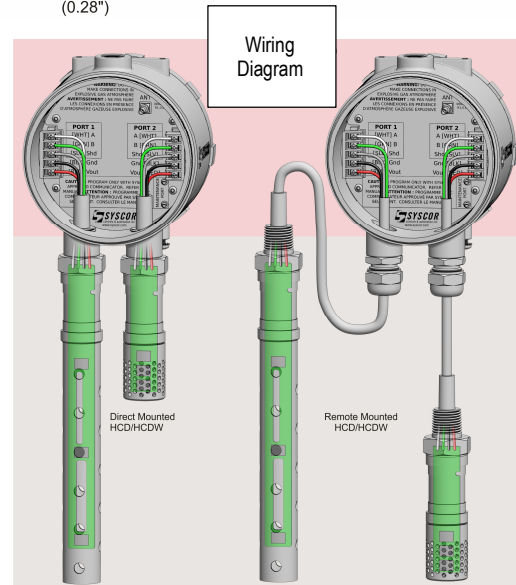
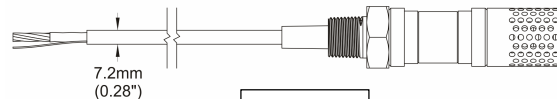
Environmental

Europe	CE: EU Directive 2011/65/EU (RoHS2), EU Directive 2015/863/EU (RoHS3)
	REACH Regulation (EC 1907/2006)
USA	California Proposition 65

**If one sensor probe is used, total cable length for Intrinsically Safe operation cannot exceed 10.05m (33ft.). If two sensor probes are used, total combined cable length for Intrinsically Safe operation cannot exceed 10.05m (33ft.).



Cable length can be up to 10058.4mm (396") terminal to terminal**



Learn More

PCU-X01 Sensor Hub	http://www.syscor.com/downloads/PCU01DDS_WiHART-Sensor_Hub.pdf
PCU-X11 Inclinator	https://www.syscor.com/downloads/PCU01DDS_WiHART-Inclinator.pdf
Hydrocarbon Detector with Water Level (HCDW) Sensor Probe	https://www.syscor.com/downloads/HCDW01DDS_HCDW-Sensor.pdf
Hydrocarbon Detector (HCD) Sensor Probe	https://www.syscor.com/downloads/HCD01DDS_HCD-Sensor.pdf
Instrumentation Cable	https://www.syscor.com/downloads/CBL01DDS_4x1-Cable.pdf