

Model HR1200 Fiber Optic Home Run Cable

DavidsonSensors™ provide the safest, most reliable and cost-effective instrumentation for harsh industrial applications.

This product data sheet describes Model HR1200 home run cables. Home run cables are those multi-strand fiber optic cables that connect junction boxes to the signal conditioners, i.e. extension cords. These cables may be cut to length and terminated in the field via fusion splice or fitted with mechanical connectors.

Fiber Optic Sensing Advantages

Fiber optic sensing offers a number of advantages for measurement in harsh industrial environments. DavidsonSensors™ are intrinsically-safe, immune to electromagnetic interference, and suitable for continuous use at temperatures up to 1000°F.

Although fiber optic sensing systems can be used effectively even in benign environments, Davidson fiber optic sensing systems offer significant technical advantages when used in the following environments:

- **Hot, Corrosive Environments**
- **Explosion Hazardous Areas**
- **High EMI Areas**

Fiber optic sensing systems eliminate or mitigate many of the following common problems:

- **Failure and Drift due to Hydrogen Permeation**
- **Drift due to Fill-Fluid Leaks**
- **Failure due to Lightning**
- **Problems due to Ground Potential**
- **Noise due to EMI/RFI**
- **Costs of Nitrogen Purge Systems**

Tagging

Stainless steel tags will be permanently attached to each junction box upon request.



***Twelve Strand Home Run Cable
with Pigtail***

Fiber Specification

62.5/125 Graded Index Fiber

Safety (Transducer and Cable)

Intrinsically-safe and suitable for use in:
Class I, Division 1, Groups B, C, and D
Class II, Division 1, Groups E, F, and G
Class III, Division 1

Other Applications

For information about other Davidson products, see

www.davidson-instruments.com

Guide to Configuring a Fiber Optic Sensing System

For information to assist you in planning a fiber optic sensing system, see

www.davidson-instruments.com

Ordering Data

Model Number	HR 1200		Cable Temperature Rating	1 6 x	125° F 550° F Other (Specify)
Number of Fibers	2 8 12 18 36 48	Two Eight Twelve Eighteen Thirty-six Forty-eight	Cable Termination First End	P S R X	None (pigtail) ST Connector Rugged Other Connector
Cable Length	_____	feet	Cable Termination Second End	P S R X	None (pigtail) ST Connector Rugged Other Connector
Cable Jacket	N A B	None SS Armor SS Braid	Other Specifications*	0 1	No Yes

* Tagging, documentation, other instructions etc.

Ordering Data Worksheet

Unit Number	Model Number	Number of Fibers	Cable Length	Cable Jacket	Cable Temperature Rating	Cable Termination First End	Cable Termination Second End	Other Specifications
1	HR1200							
2	HR1200							

Davidson Instruments, Inc.
 8301 New Trails Drive
 The Woodlands, TX 77381 USA

 Telephone: 281-362-4900
 Fax: 281-362-4933
 sales@davidson-instruments.com
 www.davidson-instruments.com

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