

City of New York
Department of Buildings

Pursuant to Administrative Code Section 27-131, the following equipment or material have been found acceptable for use in accordance with the Report of the Material and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, F.A.I.A., Commissioner

MEA 290-04-E
Report of Material and Equipment Acceptance Division

Manufacturer – The Protectowire Company, Inc., P.O. Box 200, Hanover, MA 02339.

Trade Name – Protectowire Linear Heat Detection Cable.

Product – Fire alarm equipment.

Pertinent Code Sections –

Prescribed Tests – FM (3210); FM (3610)

Laboratory – Factory Mutual Research

Test Report – J.I.0T0A9.AY issued October 3, 1990. OD9AD.AY issued March 6, 1998. 0Z8A7.AY issued February 7, 1996. J.I.3004867 issued January 26, 2000. 3019465 issued March 19, 2004. J.I.0W1A9 issued May 24, 1993

Description – Protectowire Linear Heat Detector is a proprietary cable that detects heat anywhere along its length. The sensor cable is comprised of two steel conductors individually insulated with a heat sensitive polymer. The insulated conductor are twisted together to impose a spring pressure between them, then wrapped with a protective tape and finished with an outer jacket suitable for the environment in which the detector will be insulated. Protectowire is a fixed temperature digital sensor and is therefore capable of initiating an alarm once its rated activation temperature is reached.

<u>Model#</u>	<u>Description</u>
PHSC-155-EPC	Protectowire, Type EPC, 155 deg., vinyl jacket
PHSC-155-EPC-M	Same as above with Messenger mounting cable
PHSC-190-EPC	Protectowire, Type EPC, 190 deg., vinyl jacket
PHSC-190-EPC-M	Same as above with Messenger mounting cable
PHSC-220-EPC	Protectowire, Type EPC, 220 deg., vinyl jacket
PHSC-220-EPC-M	Same as above with Messenger mounting cable
PHSC-280-EPC	Protectowire, Type EPC, 290 deg., vinyl jacket
PHSC-280-EPC-M	Same as above with Messenger mounting cable
PHSC-356-EPC	Protectowire, Type EPC, 356 deg., vinyl jacket
PHSC-356-EPC-M	Same as above with Messenger mounting cable
PHSC-155-EPR	Protectowire, Type EPR, 155 deg., polypropylene jacket
PHSC-155-EPR-M	Same as above with Messenger mounting cable
PHSC-190-EPR	Protectowire, Type EPR, 190 deg., polypropylene jacket
PHSC-190-EPR-M	Same as above with Messenger mounting cable
PHSC-280-EPR	Protectowire, Type EPR, 280 deg., polypropylene jacket
PHSC-280-EPR-M	Same as above with Messenger mounting cable

<u>Model#</u>	<u>Description</u>
PHSC-356-EPR PHSC-356-EPR-M	Protectowire, Type EPR, 356 deg., polypropylene jacket Same as above with Messenger mounting cable
PHSC-190-EPN PHSC-190-EPN-M	Protectowire, Type EPN, 190 deg., nylon over vinyl jacket Same as above with Messenger mounting cable
PHSC-6893-TRI PHSC-6893-TRI-M	Protectowire, Type TRI, 150/200 deg., vinyl jacket Same as above with Messenger mounting cable

Pursuant to "Promulgation of the Rules relating to Material and Equipment Application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objections Letter dated November 5, 2004, F.P. Index No. 0409047.

Recommendation - That the above equipment be accepted provided that:

1. All uses, configurations, arrangements and functions, applications and installations shall comply with the provisions of New York City Building Code, specifically Subchapter 17 and Reference Standard 17-3 as applicable, the manufacturer's recommendation, NFPA 72, NFPA 70, the FM Test Report and the UL Test Report.
2. The Extra High EPC, EPR & EPN Protectowire heat detection cables (Model #PHSC-356-EPC/M, PHSC-356-EPR/M) are not intended for area coverage, but are to be used for proximity detector application only.
3. The PHSC-6893-TRI/M with the FS-2000 series control panel is intrinsically safe only for Class I, Div. I, groups C, D, E, F and G.
4. The Protectowire Linear heat detection cables examined are to be installed in hazardous locations with suitable approved Protectowire Panels only.
5. Strain relief connectors shall be used in all zone boxes.
6. The PHSC-220-EPC product has an outer PVC type jacket material.
7. The various models are to be used only for the intended environment.

All shipments and deliveries of such equipment shall be provided with a metal tag suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance January 3, 2005
 Examined by Donald J. [Signature]