

Fax-on-Demand: (800) 260-9099
(650) 361-6523

FAX ID	Description
2060	Data sheet
2061	RT-1162

Before ordering check with factory for most current data.

HCTE

Irradiated modified ETFE (ethylene tetrafluoroethylene) helical Convolex tubing

Applications

Used as a conduit to provide mechanical protection for electrical wiring systems in applications requiring flexibility, high-temperature performance, and good resistance to a variety of fluids. Widely used in the military and commercial aerospace industries. Can be used in conjunction with other Raychem components to form an integrated harnessing system.

Operating Temperature Range

-55°C to 200°C

Features/Benefits

- Helical construction combines excellent flexibility with high crush resistance.
- Can withstand excursions to 300°C.
- Resists cut-through at elevated temperatures.
- Crosslinked ETFE material provides resistance to hydraulic fluids, solvents, fuels, lubricating oils, and decontaminating agents.

Installation

It is recommended that no more than 70% of the internal area ("fill factor") of the HCTE conduit be occupied by wires in any application.



Specifications/Approvals

Series	Raychem
HCTE	RT-1162

Product Dimensions (mm/in)

Size	Inside diameter		Outside diameter		Wall thickness Maximum	Convolutions ±1 per inch (per 25 mm)	Maximum weight Kg/100 m (lb/100 ft)
	Maximum as supplied	Minimum as supplied	Maximum as supplied				
0187	4.75 (.187)	4.60 (.181)	8.13 (.320)		.46 (.018)	8	1.8 (1.2)
0281	7.14 (.281)	6.93 (.273)	10.52 (.414)		.46 (.018)	8	2.2 (1.5)
0375	9.53 (.375)	9.25 (.364)	12.96 (.510)		.46 (.018)	8	3.0 (2.0)
0437	11.10 (.437)	10.85 (.427)	14.50 (.571)		.46 (.018)	8	3.7 (2.5)
0500	12.70 (.500)	12.32 (.485)	16.51 (.650)		.58 (.023)	7	5.2 (3.5)
0625	15.88 (.625)	15.44 (.608)	19.56 (.770)		.58 (.023)	7	6.4 (4.3)
0750	19.05 (.750)	17.90 (.730)	23.62 (.930)		.58 (.023)	6	7.4 (5.0)
0875	22.23 (.875)	21.84 (.860)	27.25 (1.073)		.58 (.023)	5	9.6 (6.5)
1000	25.40 (1.000)	24.77 (.975)	31.14 (1.226)		.58 (.023)	5	11.2 (7.6)
1250	31.75 (1.250)	30.74 (1.210)	35.30 (1.539)		.58 (.023)	4	13.0 (8.8)
1500	38.10 (1.500)	36.50 (1.437)	46.53 (1.832)		.58 (.023)	4	16.9 (11.4)
1625	41.28 (1.625)	39.67 (1.562)	50.17 (1.975)		.58 (.023)	4	17.7 (11.8)

Ordering Information

Color	Standard Black (-0)
Size selection	Always order a conduit size that will ensure that a "fill factor" of 70% is not exceeded.
Standard packaging	On spools.
Ordering description	Specify product name, size, and color (for example, HCTE-0375-0).

Convolex is a trademark of Raychem Corporation.

Users should independently evaluate the suitability of the product for their application.