

2-hour fire-rated, polymer insulated, power cable

Polymer insulated fire-rated cable for protection of critical life safety and essential circuits.

Raychem® RHW power cable is listed by UL and ULC as 2-hour fire-rated when installed in conduit and in accordance with Tyco Thermal Controls installation procedures and system listings. This cable meets the requirements of an “Electrical Circuit Protective System” as referred to in Articles 695 and 700 of the National Electrical Code (NEC), and exceeds the requirements of the Canadian Building Code. The details of this system appear in Electrical Circuit Protective System (FHIT), System No. 27 of the UL Fire Resistance Directory.

Raychem RHW is:

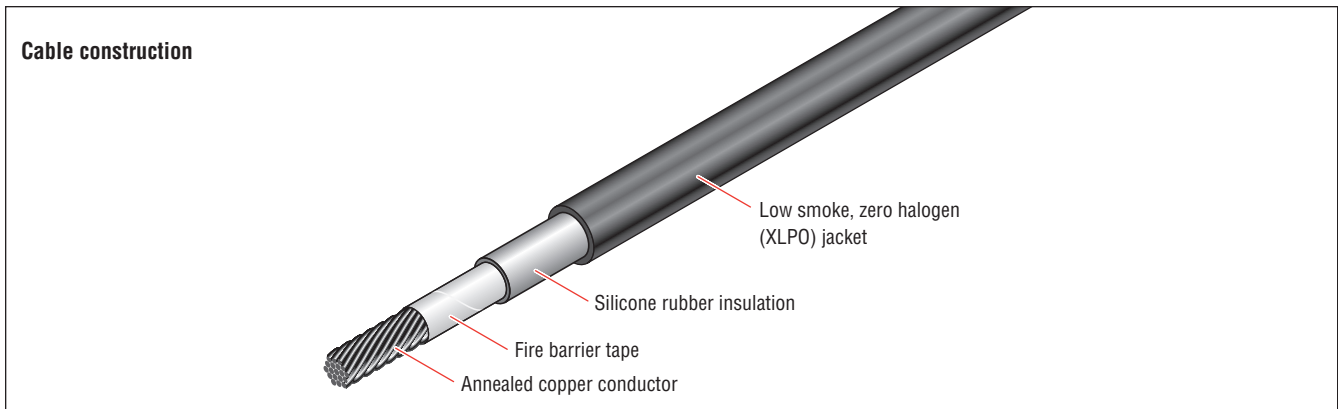
- UL Listed, NEC Type RHH/RHW in accordance with UL 44
- CSA Certified Type R90 in accordance with CSA C22.2 No. 38
- For use in wet locations to 75°C, and in dry locations to 90°C
- Low temperature rated -40°C (UL); -25°C (CSA)
- 2-hour fire-rated per UL 2196 / ULC S139 (1850°F with hose stream)
- Low toxicity index per NES-713

Applications include wiring for critical life-safety circuits in high-rise buildings, subways, tunnels, airports, and health care facilities.

Raychem RHW is ideal for:

- High-rise buildings – emergency feeders for fire pumps, elevators, smoke extraction and pressurization fans, etc.
- Hospitals and other institutions where mobility is limited, to preserve power and allow time for egress.
- Historic buildings to assure preservation of fire fighting systems.
- Tunnels and subways for smoke extraction fans, fire pumps, emergency lighting, and other power circuits.
- Airports, stadiums, hotels, banks, etc.

For additional information, contact your Tyco Thermal Controls representative or call Tyco Thermal Controls at (800) 545-6258.



Cable Construction

Conductor	Annealed copper, Class “B” strand, designed to ensure tensile strength under fire conditions
Tape	Helically applied fire barrier
Insulation	Thermoset, low smoke zero halogen silicone rubber
Insulation voltage rating	600 V
Jacket	Low smoke zero halogen cross-linked polyolefin (XLPO)
Size	US: 14 AWG - 750 kcmil; Canada: 14 AWG - 500 kcmil
Configuration	Single conductor
Cable identification	Cable outer jacket is printed with cable identification

Cable Specifications (nominal)

Product Code	Size (AWG/kcmil)	Insulation thickness		Jacket thickness		Cable diameter		Weight		Ampacity ^{1,2} (amperes)	Conduit size ³	
		(mils)	(mm)	(mils)	(mm)	(in)	(mm)	(lbs/kft)	(kg/km)		3 / conduit	4 / conduit
RHW-14	14	45	1.14	15	0.38	0.22	5.59	36	54	15	3/4	3/4
RHW-12	12	45	1.14	15	0.38	0.24	6.10	47	70	20	3/4	3/4
RHW-10	10	45	1.14	15	0.38	0.26	6.60	62	92	30	3/4	1
RHW-08	8	60	1.52	30	0.76	0.35	8.89	103	153	55	1	1 1/4
RHW-06	6	60	1.52	30	0.76	0.39	9.91	141	210	75	1 1/4	1 1/4
RHW-04	4	60	1.52	30	0.76	0.44	11.18	199	296	95	1 1/4	1 1/4
RHW-03	3	60	1.52	30	0.76	0.47	11.94	239	356	110	1 1/4	1 1/2
RHW-02	2	60	1.52	30	0.76	0.50	12.70	288	429	130	1 1/4	1 1/2
RHW-01	1	80	2.03	45	1.14	0.60	15.24	388	577	150	2	2
RHW-1/0	1/0	80	2.03	45	1.14	0.64	16.26	467	695	170	2	2
RHW-2/0	2/0	80	2.03	45	1.14	0.69	17.53	566	842	195	2	2 1/2
RHW-3/0	3/0	80	2.03	45	1.14	0.74	18.80	688	1024	225	2	2 1/2
RHW-4/0	4/0	80	2.03	45	1.14	0.79	20.07	840	1250	260	2 1/2	2 1/2
RHW-250	250	95	2.41	65	1.65	0.91	23.11	1039	1546	290	2 1/2	3
RHW-350	350	95	2.41	65	1.65	1.02	25.91	1387	2064	350	3	3
RHW-500	500	95	2.41	65	1.65	1.14	28.96	1903	2832	430	3	3 1/2
RHW-600	600	110	2.79	65	1.65	1.25	31.75	2278	3390	475	3 1/2	4

Notes:

- ¹ Ampacity is based on Table 310.16 of the National Electrical Code based on the 90°C column with 30°C ambient and 3 current carrying conductors. Temperature limitations per 110.14 of the NEC need to be considered (for Canadian ampacities, see Table 2 of the Canadian Electrical Code).
- ² Ampacity shown for 14, 12, and 10 AWG conductors is limited by NEC section 240.4(D).
- ³ Conduit is sized for 3 or 4 conductors NOT including ground wire. If ground wire is required, use NEC/CEC conduit fill tables to determine conduit size.

Approvals

UL Classified, 2-hour fire-resistive cable,
tested to UL 2196

ULC Listed, 2-hour fire-resistant cable,
tested to ULC S139-00