

SPECIFICATIONS

DuraLife® RHW-2/RHH/R90 Two-Hour Fire-Rated Power Cables

Certified to the harsh requirements of the UL 2196 Test for Fire Resistive Cables, DuraLife® RHW-2/RHH/R90 is a 600V two-hour fire-rated cable designed to provide an easy-to-install, cost effective means of protecting critical emergency systems when under fire conditions. DuraLife® RHW-2/RHH/R90 meets the code requirements for circuit survivability.



UL 2196
UL 44

Description: The patent pending DuraLife® RHW-2/RHH/R90 cables are the only two-hour fire-rated polymeric products fully tested at 600V for both US and Canadian use. Additionally, DuraLife® RHW-2/RHH/R90 products are the most comprehensive fire-rated solution offering the versatility of both EMT and phenolic conduit installation in both horizontal and vertical directions.

STANDARDS:

- Certified to UL 2196 / ULC S-139 Standard for Two-Hour Fire Resistive Cable
- Electrical Circuit Integrity System FHIT 28F & FHIT7 28F. Fire Resistive Directory R21213
- UL44 Listed for Thermoset Insulated Wires & Cables 600V&1000V/90°C RHW-2/RHH, 1000V/R90
- Meets NFPA 70 (Articles 517, 695, 700, 708, 728, and 760), 72, 101, 130, and 502
- Meets IEEE 1202/FT4-ST1
- Meets FT2 Horizontal Flame

FEATURES & BENEFITS:

- The most comprehensive and versatile two-hour fire-rated solution for 600V power applications
 - Installs in EMT or phenolic conduit
 - Full range of constructions 14 AWG through 500 MCM
 - Two-Hour Certified for both vertical and horizontal installations
 - Certification includes ancillary components
 - Low Smoke, Zero Halogen
 - Approved splice available
- Economic alternative to both MI and MC options
 - Easy to install - no special tools or procedures required
 - Long length availability eliminates need for splice
 - Readily available
- Custom Colors Available

APPLICATIONS:

- Fire Pumps
- Emergency Generators
- Ventilating Fans
- Emergency Lighting
- Emergency Elevators
- High Rise Buildings
- Hospitals
- Places of Mass Assembly

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Oxygen-free, bare copper (OFHC) conductors, stranded

Barrier Tape

Black XLPE Insulation standard

Cable voltage rating:

US: 600V & 1000V

Canada: 1000V

DURALIFE®



Survivable Cable Solutions

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HARDWARE & ACCESSORIES CERTIFIED: (Refer to DuraLife® Installation Instructions for details)

- EMT/Conduit: Wheatland/Western Tube; Allied/Atkore
 - Set-Screw Coupling and Fittings: Hubbell Raco
 - Compression Fittings: Appleton
- Phenolic Conduit: Conduit and Couplings: Champion Flame Shield Type XW
- Pull Boxes
 - NEMA 1: Eaton/Cooper
 - Type 4X: Nvent/Hoffman
- Pulling Lubricant - Polywater LZ

2020 NFPA 70® Table 310.16

Radix DuraLife® Power Cables								Horizontal / Vertical Installation - EMT Raceway	Horizontal/ Vertical Installation- Champion Flame Shield Phenolic Conduit Type XW
DuraLife Part Number	Conductor Size	Conductor Strands	Overall Diameter	Insulation System Thickness	Approximate Weight (lbs)	Ampacity 75°C (amps)	Ampacity 90°C (amps)	Number of Conductors	Number of Conductors
								5	5
RHW14A007	14 AWG	7	.218"	45 Mil	29	20	25	1 ¼"	1 ¼"
RHW12A007	12 AWG	7	.236"	45 Mil	38	25	30	1 ¼"	1 ¼"
RHW10A007	10 AWG	7	.260"	45 Mil	52	35	40	1 ¼"	1 ¼"
RHW08A007	8 AWG	7	.320"	60 Mil	83	50	55	1 ½"	1 ½"
RHW06A007	6 AWG	7	.357"	60 Mil	120	65	75	2"	2"
RHW04A007	4 AWG	7	.404"	60 Mil	175	85	95	2 ½"	2 ½"
RHW03A007	3 AWG	7	.432"	60 Mil	208	100	115	2 ½"	2 ½"
RHW02A007	2 AWG	7	.463"	60 Mil	252	115	130	2 ½"	3"
RHW01A019	1 AWG	19	.540"	80 mil	335	130	145	2 ½"	NA
RHWX1A019	1/0	19	.580"	80 Mil	409	150	170	3"	NA
RHWX2A019	2/0	19	.625"	80 Mil	501	175	195	3"	NA
RHWX3A019	3/0	19	.675"	80 Mil	617	200	225	3 ½"	NA
RHWX4A019	4/0	19	.741"	80 Mil	762	230	260	3 ½"	NA
RHW25A037	250 MCM	37	.808"	95 Mil	912	255	290	3 ½" (H)/ 4" (V)	NA
RHW30A037**	300 MCM	37	.855"	95 Mil	1075	285	320	4"	NA
RHW35A037	350 MCM	37	.911"	95 Mil	1235	310	350	4"	NA
RHW40A037**	400 MCM	37	.956"	95 Mil	1404	335	380	4**	NA
RHW50A037	500 MCM	37	1.04"	95 Mil	1730	380	430	4**	NA

See manufacturer's instructions for additional options and detailed conduit fill by awg size, orientation, conduit type.

Must follow UL Electrical Circuit Protective System 28F and all provisions of the National Electrical Code (NFPA 70).

See National Electrical Code (NFPA 70) section 240-3.

Ampacity based on three current carrying conductors in a conduit and a 30°C (88°F) ambient temperature. Note that the table does not take voltage drop into consideration.

*4 Conductors

** Special order items, minimums apply.

