

SPECIFICATIONS

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

Certified to the harsh requirements of the UL 2196 Test for Fire Resistant Cables, DuraLife® 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® RHH/R90 meets the code requirements for circuit survivability.



UL 2196
UL 44

Intertek
LISTED

Description: The only full-range product on the market, 14 AWG through 500 MCM two-hour UL 2196 rated in both vertical and horizontal configurations, EMT and Champion Flame Shield Phenolic Conduit Type XW, Low Smoke, Zero Halogen (LSZH) design

STANDARDS:

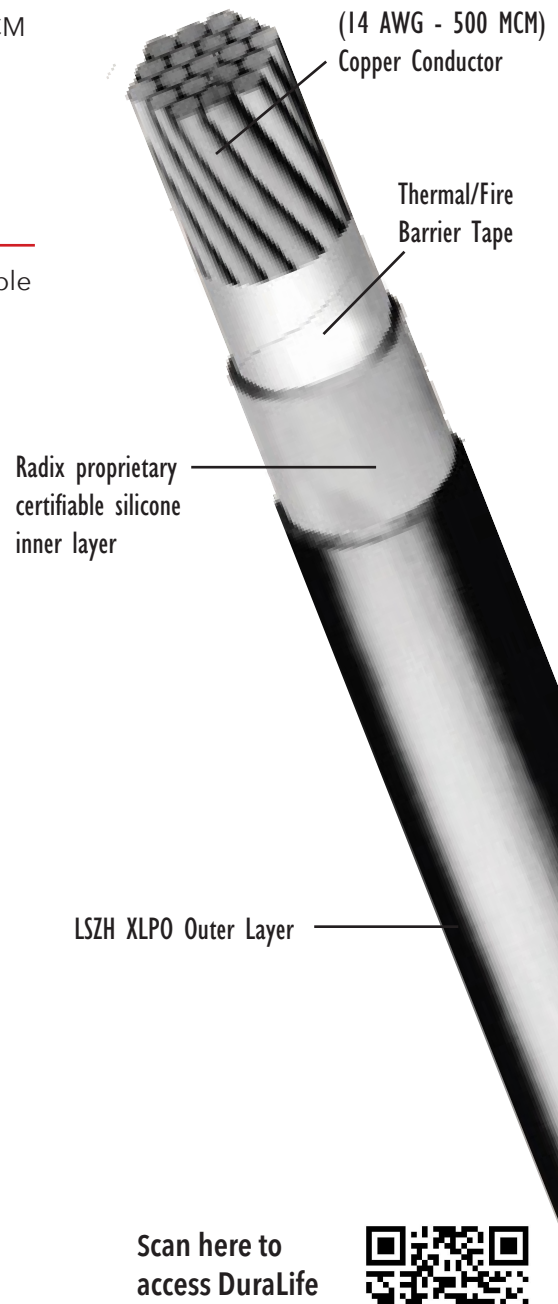
- Certified to UL 2196 / ULC S-139 Standard for Two-Hour Fire Resistant Cable
- Electrical Circuit Integrity System FHIT 28E & FHIT7 28E. Fire Resistant Directory R21213
- UL44 Listed for Thermoset Insulated Wires & Cables 600V/90°C RHH/R90
- Meets NFPA 70 Articles 517, 695, 700, 708 & 660
- Meets NFPA 130 and 502 with AHJ approval
- Meets IEEE 1202/FT4-ST1 10 AWG and larger
- 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
- Economic alternative to both MI and MC options
 - Easy to install - no special tools or procedures required
 - Long length availability eliminates need for splice

APPLICATIONS:

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



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

- EMT/Conduit: Wheatland/Western Tube; Set-Screw Coupling & Fittings: Hubbell Raco
- Phenolic Conduit: Conduit & Couplings: Champion Fiberglass; Conduit clamps: Erico
- 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 Installation- Champion Flame Shield Phenolic Conduit Type XW		Vertical Installation- Champion Flame Shield Phenolic Conduit Type XW	
							Number of Conductors		Number of Conductors		Number of Conductors	
DuraLife Part Number	Conductor Size	Conductor Strands	Overall Diameter	Insulation System Thickness	Approx. Weight (lbs)	Ampacity 90°C (amps)	1 to 4	5	1 to 4	5	1 to 4	5
RH14A007	14 awg	7	.195"	45 mils	29	15**	1"	1 ¼"	1"	1 ¼"	1"	1 ¼"
RH12A007	12 awg	7	.220"	45 mils	38	20**	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1"	1 ¼"
RH10A007	10 awg	7	.250"	45 mils	54	30**	1 ¼"	1 ½"	1 ¼"	1 ¼"	1"	1 ¼"
RH08A007	8 awg	7	.310"	60 mils	84	55	1 ¼"	1 ½"	1 ¼"	1 ½"	1"	1 ¼"
RH06A007	6 awg	7	.380"	75 mils	131	75	1 ½"	2"	1 ½"	2"	1 ¼"	1 ½"
RH04A007	4 awg	7	.420"	75 mils	186	95	2"	2 ½"	2"	2 ½"	1 ¼"	1 ½"
RH03A007	3 awg	7	.450"	75 mils	225	110	2"	2 ½"	2 ½"	2 ½"	1 ¼"	2"
RH02A007	2 awg	7	.480"	75 mils	270	130	2"	2 ½"	2 ½"	3"	1 ½"	2"
RH01A019	1 awg	19	.560"	100 mils	365	150	2 ½"	3"	2 ½"	3"	2 ½"	3"
RHX1A019	1/0	19	.600"	100 mils	443	170	2 ½"	3"	2 ½"	3"	2 ½"	3"
RHX2A019	2/0	19	.650"	100 mils	537	195	2 ½"	3"	2 ½"	3"	2 ½"	3"
RHX3A019	3/0	19	.700"	100 mils	658	225	3"	3 ½"	3"	3 ½"	3"	3 ½"
RHX4A019	4/0	19	.760"	100 mils	806	260	3"	3 ½"	3"	3 ½"	3"	3 ½"
RH250A037	250 MCM	37	.865"	130 mils	991	290	3 ½"	4"	3"	3 ½"	3"	4"
RH300A037*	300 MCM	37	.920"	130 mils	1165	350	4"	4"	3 ½"	4"	3 ½"	4****
RH350A037	350 MCM	37	.970"	130 mils	1306	430	4"	4"	3 ½"	4"	3 ½"	4****
RH400A037*	400 MCM	37	1.020"	130 mils	1672	475	4"	X	4"	X	4"	X
RH500A037	500 MCM	37	1.105"	130 mils	1825	535	4"	X	4"	X	4"	X

See manufacturer's instructions for additional options and detailed conduit fill by awg size, orientation, conduit type. Must follow UL Electrical Circuit Protective System (FHIT/7) #28E and all provisions of the National Electrical Code (NFPA 70). Ampacity based on three current carrying conductors in a conduit and a 30°C (88°F).

* 300 & 400 MCM sizes are available as a special order item.

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

*** Max 4 x 300MCM + 1 x 2/0 ground; Max 4 x 350MCM + 1 x 1/0 ground

