

Lifeline® Power Cables:

RHW-2 Two-Hour Fire Resistive Cables in EMT Conduit

UL 2196 Certified Fire Resistive Cable for Survivability in a Fire



SPECIFICATIONS & RATINGS

- Listed to UL 44, Thermoset Insulated Wires and Cables, as the following type:
 - RHW-2, 600 Volt, Rated 90°C Dry/90°C Wet
- Classified to UL 2196, Standard for Tests for Fire Resistive Cables, for two-hours.
- Electrical Circuit Integrity System (FHIT) No. 25E of the UL Fire Resistance Directory.
- FT4-ST1 12AWG and larger
- NFPA 70, NFPA 72, NFPA 101, NFPA 130 and NFPA 502

DESIGN PARAMETERS

CONDUCTORS: Bare stranded copper, 14 AWG through 750kcmil

FIRE BARRIER: High Temperature Mica Tapes

INNER INSULATION: Ceramifiable silicone, Low Smoke Zero Halogen (LSZH)

OUTER INSULATION: Cross-linked polyolefin (XLPO), Low Smoke Zero Halogen

IDENTIFICATION:

ORIGIN USA PRYSMIAN MA P/N [#####] [X]AWG ([Y] mm²)
LIFELINE® (UL) RHW-2 600V FT4 ST1 VW1 (UL) 2196 FHIT25E FRR 2
HR 480V UTILIZATION ([mm]/[yr]) [2ft]

Notes: [#] is cable part number
[X] is cable size in AWG or kcmil
[Y] is cable size in mm²
[1] FT4 ST1 12AWG and larger



RoHS
COMPLIANT

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Table 1 – Cable Description

LIFELINE® Part Number	Conductor Size AWG /MCM	Number of Strands	Insulation Thickness in (mm)	Overall Diameter in (mm)	Approximate Weight lbs/Mft (kg/km)	Ampacity* 75°C Amps	Ampacity* 90°C Amps
H30061	14	7	0.045 (1.1)	0.20 (5.0)	30 (45)	20**	25**
H30062	12	7	0.045 (1.1)	0.22 (5.5)	37 (55)	25**	30**
H30063	10	7	0.045 (1.1)	0.24 (6.1)	52 (77)	35**	40**
H30064	8	7	0.060 (1.5)	0.31 (7.7)	84 (125)	50	55
H30065	6	7	0.075 (1.9)	0.38 (9.5)	129 (192)	65	75
H30066	4	7	0.075 (1.9)	0.42 (10.7)	185 (275)	85	95
H30067	3	7	0.075 (1.9)	0.45 (11.4)	224 (333)	100	115
H30068	2	7	0.075 (1.9)	0.48 (12.2)	269 (400)	115	130
H30069	1	19	0.100 (2.5)	0.57 (14.5)	364 (542)	130	145
H30070	1/0	19	0.100 (2.5)	0.61 (15.5)	441 (656)	150	170
H30071	2/0	19	0.100 (2.5)	0.65 (16.6)	535 (796)	175	195
H30072	3/0	19	0.100 (2.5)	0.70 (17.9)	656 (976)	200	225
H30073	4/0	19	0.100 (2.5)	0.76 (19.3)	803 (1195)	230	260
H30074	250	37	0.130 (3.3)	0.87 (22.0)	987 (1469)	255	290
H31501	300	37	0.130 (3.3)	0.92 (23.3)	1160 (1726)	285	320
H30075	350	37	0.130 (3.3)	0.97 (24.6)	1306 (1943)	310	350
H31496	400	37	0.130 (3.3)	1.01 (25.7)	1500 (2232)	335	380
H30076	500	37	0.130 (3.3)	1.10 (27.8)	1820 (2708)	380	430
H30077	600	61	0.145 (3.7)	1.21 (30.6)	2199 (3272)	420	475
H30078	750	61	0.145 (3.7)	1.31 (33.1)	2699 (4016)	475	535

* Ampacities are based on Table 310.16 of the National Electrical Code (NFPA 70) for 3 current carrying conductors at 30°C ambient.

** Small overcurrent protection limitations per NEC Article 240.4(D): (4) 14AWG – 15 amps, (6) 12AWG – 20 amps, (30) 10AWG – 30 amps.

The above dimensions are approximate and subject to normal manufacturing tolerances. Information subject to change without notice.

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Table 2 – Minimum Allowable Conduit Size

Conductor Size	Minimum Allowable Conduit Size									
	Horizontal Installation					Vertical Installation				
	Number of Conductors					Number of Conductors				
	1	2	3	4	5	1	2	3	4	5
14	½	¾	¾	¾	1	½	½	¾	¾	1-¼
12	½	¾	1	1	1-¼	½	¾	¾	1	1-¼
10	½	¾	1	1-¼	1-¼	½	¾	1	1	1-½
8	½	1	1-¼	1-¼	1-¼	½	1	1-¼	1-¼	1-¼
6	¾	1-¼	1-¼	1-½	2	¾	1-¼	1-¼	1-½	2
4	1	1-¼	1-½	2	2	1	1-¼	1-½	2	2
3	1	1-¼	1-½	2	2	1	1-¼	1-½	2	2
2	1	1-½	2	2	2-½ (2 ¹)	1	1-½	1-½	2	2
1	1-¼	2	2	2-½	2-½	1-¼	2	2	2-½	2-½
1/0	1-¼	2	2-½	2-½	3	1-¼	2	2-½	2-½	3
2/0	1-¼	2	2-½	2-½	3	1-¼	2	2-½	2-½	3
3/0	1-½	2	2-½	3	3	1-½	2-½	2-½	3	3-½
4/0	1-½	2-½	2-½	3	3-½	1-½	2-½	3	3	3-½
250	2	2-½	3	3	3-½	2	2-½	3	3	4 (3-½ ²)
300	2	2-½	3	3-½	4	2	2-½	3	3-½	(4 ³)
350	2	2-½	3	3-½	4	2	2-½	3	3-½	(4 ³)
400	2	3	3-½	4	N/A	2	3	3-½	4	N/A
500	2-½	3	3-½	4	N/A	2-½	3	3-½	4	N/A
600	2-½	3-½	4	N/A	N/A	2-½	3-½	4	N/A	N/A
750	2-½	3-½	N/A	N/A	N/A	2-½	3-½	N/A	N/A	N/A

For questions regarding installation and conduit size, including the use of ECG, contact the Lifeline team at Prysmian Cables & Systems USA, LLC na.lifeline@prysmian.com.

- ¹ 2 inch conduit may be used when ground conductor is 8AWG or smaller
- ² 3½ inch conduit may be used when ground conductor is 2AWG or smaller
- ³ 4 inch conduit may be used when ground conductor is 1AWG or smaller

Table 3 – Minimum Allowable Conduit Bend Radius

Trade Size	Bend Radius
½	4"
¾	4-½"
1	5-¾"
1-¼	7-¼"
1-½	8-¼"
2	9-½"
2-½	10-½"
3	13"
3-½	15"
4	16"