

RHH/RHW-2/USE-2

Copper Conductor

Prysmian
Group



Description

The RHH/RHW-2/USE-2 is a single insulated stranded conductor Class B or C annealed copper; with thermoset insulation materials composed by black crosslinked polyethylene (XLPE).

Standard Specifications

The RHH/RHW-2/USE-2 conductors are built based on the following:

- Standards: **ASTM B3, B8, B787 and UL 44.**
- Certificates: **UL E179372, E176603 and CIDET # 02650.**

Features

- The RHHW-2/USE-2 cables are designed with a high resistance thermoset cross linked polyethylene insulation to be installed on dry, damped or wet locations at temperatures not exceeding 90°C and 1000V maximum operating voltage.



- Due to the cross-linked polyethylene insulation, the conductors provide a high performance for: mechanical stress, humidity, oils and chemical resistance.
- The carbon black insulation content provides UV resistance, allowing product installation directly exposed to sun light on tray cables, metal conduits and raceways.

Applications

- The RHHW-2/USE-2 conductors are designed primarily for service entrance (USE-2), feeders and branch circuits in commercial and residential applications.
- The XLPE crosslinked insulation provides high-performance during overload and short-circuit conditions.
- The high mechanical strength of the insulation and the oversized thickness allows for underground feeder systems installed as direct burial conductor.
- The RHHW-2/USE-2 cables can be installed in ducts either metallic or plastic in tray cables or directly buried (optional TC available).



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Technical Information

Dimensions and nominal features

The conductor operating amperage is defined by the installation condition and operating temperatures identified in the NEC. See TABLE 310.15(B)(16) NFPA 70 latest version

Gauge		Area		Wires	Insulation Thickness		External Diameter		Weight	DC Max. @ 20°C Resistance
AWG/kcmil	cmil	mm ²	#	in	mm	in	mm	kg/km	Ω/km	
10	10 380	5,26	7	0,045	1,143	0,206	5,232	61,63	3,41	
8	16 510	8,37	7	0,045	1,143	0,236	5,994	92,19	2,14	
6	26 240	13,3	7	0,060	1,524	0,304	7,722	148,70	1,35	
4	41 740	21,2	19	0,060	1,524	0,346	8,788	224,91	0,848	
3	52 620	26,7	19	0,060	1,524	0,374	9,500	277,44	0,673	
2	66 360	33,6	19	0,060	1,524	0,406	10,312	343,21	0,534	
1/0	105 600	53,5	19	0,080	2,032	0,520	13,208	551,74	0,335	
2/0	133 100	67,4	19	0,080	2,032	0,564	14,326	682,94	0,266	
3/0	167 800	85,0	19	0,080	2,032	0,614	15,596	847,97	0,211	
4/0	211 600	107	19	0,080	2,032	0,670	17,018	1057,07	0,167	
250	250 000	127	37	0,095	2,413	0,748	18,999	1255,96	0,142	
300	300 000	152	37	0,095	2,413	0,801	20,345	1495,38	0,118	
350	350 000	177	37	0,095	2,413	0,851	21,615	1733,23	0,101	
400	400 000	203	37	0,095	2,413	0,896	22,758	1965,61	0,0885	
500	500 000	253	37	0,095	2,413	0,979	24,867	2430,34	0,0709	
600	600 000	304	61	0,110	2,794	1,086	27,584	2935,15	0,0590	
750	750 000	380	61	0,110	2,794	1,188	30,175	3635,97	0,0472	
1000	1 000 000	507	61	0,110	2,794	1,337	33,960	4799,11	0,0354	

Note: The values given may vary according to the manufacturing tolerances



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