



Detail Description or Construction

Type RHH/RHW-2/USE-2 is a single insulated conductor of solid or stranded bare annealed copper, with insulation of thermoset materials composed by crosslinked polyethylene (XLPE) and designed to operate not beyond 600V.

Application

The RHH/RHW-2/USE-2 conductor is suitable for most current wiring solutions for residential, commercial and industrial applications. Because of its excellent response under overload and short-circuit situations it is used in underground service entrance installations especially direct buried applications. This product was designed to operate at 90°C of temperature inside the conductor in dry and wet conditions. Its crosslinked polyethylene (XLPE) insulation does not propagate the flame as well as provides major mechanical resistance against to humidity, chemical agents and oils. Its black pigmentation resist the ultraviolet rays due to sun light exposure, thereby, these might be used in outside applications.

Conductors certified with suffix “-2”, as RHW-2, these can meet a continuous operation temperature of 90°C (194°F) in dry or wet conditions.

Standards / Testing Specifications

- RHH/RHW-2/USE-2 conductors have been designed according to ASTM B3, B8, UL-1581, UL-854 and UL-44 specifications and requirements of the latest version of the National Electrical Code (NEC).

Marking

PHELPS DODGE USE-2 OR RHH OR RHW-2 (GAUGE) 600V XLPE (UL) E179372.

Installation

RHH/RHW-2/USE-2 conductors in sizes from 14 AWG up to 1000 Kcmil (MCM) can be installed in conduits, raceways. Sizes 1/0 AWG and larger are manufactured in black color therefore can be installed in cable trays for outside applications. It is recommended that the installation instructions indicated by the latest revision of the NEC or any Local Electric Code, or any equivalent, be followed, so that the safeguarding of persons and the integrity of the product will not be affected by deficiencies in the installation. For current ampacity details please refer to NEC tables 310-16, 310-17 and 310-20 according to each application.



RHH / RHW-2 / Use-2

600 V Copper Conductor. Crosslinked Insulation

TECHNICAL INFORMATION (Central America)

Size	Nominal Cross Section Area		No. of Strands	Nominal Isolation Thickness		Total Aproximate External Diameter		Total Aproximate Weight kg / km	Max.C.D. Electrical Resistance @30°C Ω / km	Standad Packaging m
	AWG / MCM	C.M.		mm ²	in	mm	in			
10	10380	5.26	7	0.045	1.14	0.206	5.22	64	3.56	WR 305
8	16510	8.37	7	0.060	1.52	0.266	6.75	104	2.23	WR 305
6	26240	13.30	7	0.060	1.52	0.304	7.71	155	1.40	WR 305
4	41740	21.15	19	0.060	1.52	0.346	8.80	231	0.881	WR 305
3	52620	26.66	19	0.060	1.52	0.374	9.51	285	0.700	WR 305
2	66360	33.63	19	0.060	1.52	0.406	10.30	353	0.554	WR 305
1	83690	42.41	19	0.080	2.03	0.481	12.21	458	0.443	WR 305
1/0	105600	53.51	19	0.080	2.03	0.520	13.21	567	0.348	WR 305
2/0	133100	67.44	19	0.080	2.03	0.564	14.34	703	0.277	WR 305
3/0	167800	85.03	19	0.080	2.03	0.614	15.60	873	0.220	WR 305
4/0	211600	107.22	19	0.080	2.03	0.670	17.02	1,087	0.174	WR 305
250	250000	126.68	37	0.095	2.41	0.766	19.46	1,294	0.148	WR 305
300	300000	152.01	37	0.095	2.41	0.821	20.85	1,536	0.123	WR 305
350	350000	177.35	37	0.095	2.41	0.872	22.15	1,778	0.105	WR 305
400	400000	202.68	37	0.095	2.41	0.919	23.34	2,020	0.0919	WR 305
500	500000	253.36	37	0.095	2.41	1.005	25.53	2,501	0.0738	WR 305
600	600000	304.03	61	0.110	2.79	1.113	28.27	3,015	0.0617	WR 305
750	750000	380.03	61	0.110	2.79	1.219	30.96	3,735	0.0491	WR 305
1000	1000000	506.71	61	0.110	2.79	1.373	34.87	4,930	0.0369	WR 305

Packaging:

WR: wooden reel, CB: carton box, C: coils



RHH / RHW-2 / Use-2

600 V Copper Conductor. Crosslinked Insulation

TECHNICAL INFORMATION (Puerto Rico and USA)

Gauge	Nominal Cross Section Area		No. of Strands	Nominal Isolation Thickness		Total Aproximate External Diameter		Total Aproximate Weight	Max.C.D. Electrical Resistance @ 30°C	Standad Packaging
	AWG / MCM	C.M.		mm ²	in	mm	in	mm	lb / 1000 ft	Ω / 1000 ft
10	10380	5.26	19	0.045	1.14	0.203	5.15	43	1.08	WR 305
8	16510	8.37	19	0.060	1.52	0.262	6.67	69	0.680	WR 305
6	26240	13.30	19	0.060	1.52	0.300	7.61	103	0.427	WR 305
4	41740	21.15	19	0.060	1.52	0.346	8.80	155	0.269	WR 305
3	52620	26.66	19	0.060	1.52	0.374	9.51	192	0.213	WR 305
2	66360	33.63	19	0.060	1.52	0.406	10.30	237	0.169	WR 305
1	83690	42.41	19	0.080	2.03	0.481	12.21	308	0.135	WR 305
1/0	105600	53.51	19	0.080	2.03	0.520	13.21	381	0.106	WR 305
2/0	133100	67.44	19	0.080	2.03	0.564	14.34	472	0.0845	WR 305
3/0	167800	85.03	19	0.080	2.03	0.614	15.60	586	0.0670	WR 305
4/0	211600	107.22	19	0.080	2.03	0.670	17.02	730	0.0531	WR 305
250	250000	126.68	37	0.095	2.41	0.766	19.46	868	0.0450	WR 305
300	300000	152.01	37	0.095	2.41	0.821	20.85	1,031	0.0375	WR 305
350	350000	177.35	37	0.095	2.41	0.872	22.15	1,194	0.0321	WR 305
400	400000	202.68	37	0.095	2.41	0.919	23.34	1,356	0.0280	WR 305
500	500000	253.36	37	0.095	2.41	1.005	25.53	1,679	0.0225	WR 305
600	600000	304.03	61	0.110	2.79	1.113	28.27	2,024	0.0188	WR 305
750	750000	380.03	61	0.110	2.79	1.219	30.96	2,507	0.0150	WR 305
1000	1000000	506.71	61	0.110	2.79	1.373	34.87	3,310	0.0113	WR 305

Packaging:

WR: wooden reel, CB: carton box, C: coils