

# TC-RHH/RHW-2 – USE-2 Copper

XLPE Insulated, PVC Jacketed, ER; 600 V

**CME**<sup>®</sup>  
wire and cable

A Viakable Company

## Features

UL Listed as TC-ER - exposed run tray cable.

Jacket is rated Sunlight Resistance, Oil Resistance I and Direct Burial.

Meets following 70,000 Btu flame tests:

- ICEA T-30-520

Single conductors are rated RHH/RHW-2 – USE-2.

Rated as RW90 per CSA.

## Application

These cables are specifically approved for power, control, lighting and signal circuits, in manufacturing, industrial and commercial installations.

For use in accordance with NEC, Article 336, in cable trays, in raceways, or where supported in outdoor locations supported by a messenger wire.

In cable tray in hazardous (classified) locations Class I, Division 2 per NEC, also as Class I circuits per Article 725, and in Class II, Division 2, as permitted per NEC.

When installed in accordance with NEC 336.10(7), TC-ER marked cable is approved for use as open wiring between a cable tray and the utilization equipment or device.

It can also be used directly buried.

## Standards

UL 1277

Electrical Power and Control Tray Cables with Optional Optical-Fiber Members.

ICE A S-73-5 32

NEMA WC57

Standard for Control Cables.

UL 44

Rubber-Insulated Wires and Cables.

ICE A S-95-658

Standard for Non-shielded Power Cables Rated 2000 Volts or Less.

## Specifications

Maximum operating voltage:

- 600 volts

Maximum conductor operation temperatures:

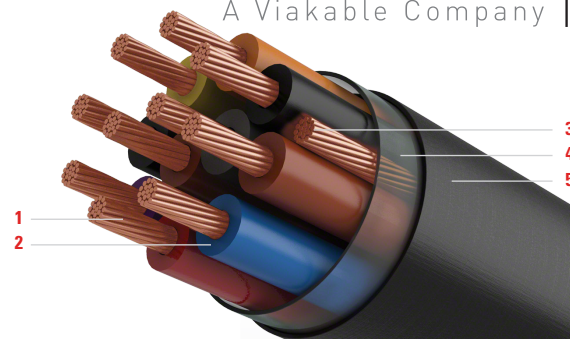
- 90 °C wet and dry.

## Engineering Information

**1. Conductor:** Soft annealed uncoated copper compressed Class B or unilay-compressed (19 wires) per ASTM B8.

**Sizes:** 14 AWG up to 1000 kcmil.

**2. Insulation:** Flame retardant thermoset crosslinked polyethylene (XLPE).



### Conductor Identification ICEA:

**14 AWG – 10 AWG:** Color coded per Method 1 Table E-2, **without White and Green colors.**

*On request, Table E-1, which includes White & Green colors.*

### Sizes 8 AWG – 1000 kcmil:

Black insulation with Printed numbers, 1, 2, 3, or 4.

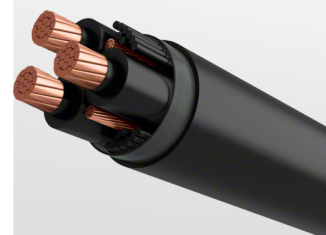
*On request, Color coded, BL, WH and Red or Green.*

### 3. Grounding (Optional):

One bare or one or more insulated conductors.

**4. Assembly:** Phase and optional grounding conductor(s) cabled with non hygroscopic fillers, as required and binder tape.

**5. Jacket :** Black sunlight resistant and flame retardant polyvinyl chloride (PVC) compound.



CONTROL CABLE

POWER CABLE

Technical Data

RHH/RHW-2 600 V

Size	Number of Strands	Insulation: XLPE	Nominal Insulated OD
14 AWG	7	45 mil	164 mil
Number of Conductors	Jacket Thickness	Approximate Outside Diameter	Approximate Net Weight
	mil	in	lb/kft
2 Flat	45	0.26 x 0.42	72
2	45	0.43	95
3	45	0.45	122
4	45	0.49	148
5	60	0.57	189
6	60	0.62	224
7	60	0.62	247
8	60	0.67	291
9	60	0.72	307
10	60	0.77	323
12	60	0.81	374
14	80	0.89	474
15	80	0.94	513
16	80	0.94	530
19	80	0.99	595
20	80	1.04	649
24	80	1.15	767
25	80	1.18	794
30	80	1.22	890
37	80	1.32	1070

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

**Ampacities:** Refer to beginning of section.

Technical Data *continued*

## RHH/RHW-2 600 V

Size	Number of Strands	Insulation: PVC/Nylon	Nominal Insulated OD
12 AWG	7	45 mil	182 mil
Number of Conductors	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
2 Flat	45	0.28 x 0.46	98
2	45	0.46	105
3	45	0.49	157
4	60	0.57	209
5	60	0.62	244
6	60	0.67	290
7	60	0.67	323
8	60	0.73	380
9	60	0.79	403
10	80	0.89	461
12	80	0.93	533
14	80	0.97	621
15	80	1.03	673
16	80	1.03	698
19	80	1.08	788
20	80	1.13	858
24	80	1.26	1017
25	80	1.29	1054
30	80	1.34	1192
37	80	1.44	1438

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

**Ampacities:** Refer to beginning of section.

**Technical Data** *continued*

**RHH/RHW-2** 600 V

Size	Number of Strands	Insulation: XLPE	Nominal Insulated OD
10 AWG	7	45 mil	206 mil
Number of Conductors	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
2 Flat	45	0.30 x 0.51	130
2	45	0.51	159
3	60	0.57	227
4	60	0.63	279
5	60	0.69	328
6	60	0.75	392
7	60	0.75	439
8	60	0.81	517
9	80	0.91	587
10	80	0.98	623
12	80	1.03	725
14	80	1.08	848
15	80	1.14	918
16	80	1.14	955
19	80	1.20	1086
20	80	1.26	1180
24	80	1.41	1401
25	80	1.44	1454
30	80	1.49	1656
37	80	1.61	2007

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

**Ampacities:** Refer to beginning of section.

Technical Data *continued*

## RHH/RHW-2 600 V

Size AWG or kcmil	Number of Strands	Nominal Insulation Thickness	Optional Grounding* Conductor	Jacket Thickness	Approximate Outside Diameter	Approximate Net Weight	
		mil	AWG	mil	in	W/O Ground lb/kft	Ground lb/kft
<b>Two Conductors</b>							
8	7	60	10	60	0.66	252	278
6	7	60	8	60	0.74	341	383
4	7	60	8	60	0.83	475	517
2	7	60	6	80	0.98	719	786
1	19	80	6	80	1.15	927	994
1/0	19	80	6	80	1.23	1111	1178
2/0	19	80	6	80	1.31	1337	1404
3/0	19	80	4	80	1.41	1619	1726
4/0	19	80	4	80	1.53	1969	2076
250	37	95	4	110	1.74	2444	2551
300	37	95	3	110	1.85	2845	2980
350	37	95	3	110	1.95	3246	3380
400	37	95	3	110	2.04	3641	3775
500	37	95	2	110	2.20	4425	4595
600	61	110	2	110	2.42	5299	5468
750	61	110	1	110	2.62	6461	6673
<b>Three Conductors</b>							
8	7	60	10	60	0.70	331	358
6	7	60	8	60	0.78	456	498
4	7	60	8	80	0.92	683	726
2	7	60	6	80	1.05	981	1048
1	19	80	6	80	1.22	1267	1334
1/0	19	80	6	80	1.31	1528	1595
2/0	19	80	6	80	1.40	1852	1919
3/0	19	80	4	80	1.51	2256	2362
4/0	19	80	4	80	1.63	2758	2865
250	37	95	4	110	1.86	3393	3499
300	37	95	3	110	1.97	3967	4102
350	37	95	3	110	2.08	4542	4677
400	37	95	3	110	2.18	5110	5244
500	37	95	2	110	2.36	6238	6408
600	61	110	2	110	2.59	7483	7652
750	61	110	1	140	2.87	9332	9544

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

**Ampacities:** Refer to beginning of section.

\* At the option of manufacturer, Ground Conductor can be divided in three, one in each interstice.

Technical Data *continued*

## RHH/RHW-2 600 V

Size AWG or kcmil	Number of Strands	Nominal Insulation Thickness	Optional Grounding*	Jacket Thickness	Approximate Outside Diameter	Approximate Net Weight	
		mil	AWG	mil	in	W/O Ground lb/kft	Ground lb/kft
<b>Four Conductors</b>							
8	7	60	10	60	0.66	252	278
6	7	60	8	60	0.74	341	383
4	7	60	8	60	0.83	475	517
2	7	60	6	80	0.98	719	786
1	19	80	6	80	1.15	927	994
1/0	19	80	6	80	1.23	1111	1178
2/0	19	80	6	80	1.31	1337	1404
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4/0	19	80	4	80	1.53	1969	2076
250	37	95	4	110	1.74	2444	2551
300	37	95	3	110	1.85	2845	2980
350	37	95	3	110	1.95	3246	3380
400	37	95	3	110	2.04	3641	3775
500	37	95	2	110	2.20	4425	4595
600	61	110	2	110	2.42	5299	5468
750	61	110	1	110	2.62	6461	6673

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

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