



# DLO 2000V

# RHH/RHW-2 2000V

# RW90/RW90-TC 1000V

**UL 44, UL 1685, IEEE-1202, CSA c22.2 No. 38 CSA C22.2 No. 230  
ASTM B-172, ASTM B-174, ASTM B-33, AAR RP-588, RP-586**

Portable Power Cables 90°C UL C(UL) MSHA Industrial Grade

## APPLICATIONS

Designed for uses requiring a flexible power cables. For portable or fixed installations. Leads for motors generators, batteries, jumper cables. Deep well Submersible Pump Cable. Other industrial applications

## CONSTRUCTION

|                 |   |
|-----------------|---|
| Nominal voltage | RHH/RHW-2 600 and 2000V, RW-90 CSA 1kV, DLO 2kV                                 |
| Conductors      | Annealed flexible stranded tinned copper, ASTM B-172, ASTM B-174, ASTM B-33     |
| Separator       | All sizes except for 14AWG have tape separator between conductor and insulation |
| Insulation      | Ethylene-propylene rubber (EPR),UL,CSA, ICEA, AAR RP-588, 90°C                  |
| Jacket          | Black heavy duty CPE thermosetting compound, ICEA S-95-658 NEMA WC-70, AAR-586  |
| Bending radius  | For fixed minimum 4xD, for flexible minimum 6xD,<br>D – diameter of cable       |



## Features

UL listed RHH/RHW-2 600V and 2000V for black jacket. Rated 2kV DLO, 1kV RW90. 90°C (dry), 90°C (wet). Ozone, sunlight, oil, grease, weather, chemical and abrasion resistant. Rated RW90-TC (Tray Cable) for sizes 1/0 and larger. MSHA, VW-1, SUN RES, FOR CT USE for sizes 1/0AWG and larger and for black jacket. Limited Smoke (LS) ST1 in accordance with (UL) 1685. CSA listed RW90, RW90-TC (for black jacket ) 1kV



# Approvals

**UL:** E193954(CPE jacket) RHW-2 90°C wet and dry, VW-1 Sun Res, for 1/0 and larger ST1, FT4 IEEE 1202, for CT use  
**C(UL):** E193954 Type RW90 EP,1kV FT1, **CSA:** 1101269, LL 103932:205591, RW90°C FT1, FT4, -40°C, for 1/0AWG and larger, Oil Res, Tray Cable, Sun Res, **MSHA:** P-7K-268080-01

## Technical and Electrical Characteristic

| Part Number | Power Conductor Size | Power Conductor | Conductor Diameter | Nominal insulation thickness | Nominal jacket thickness | Overall diameter |        |         | Weight     |       | Ampacity at 30°C |
|-------------|----------------------|-----------------|--------------------|------------------------------|--------------------------|------------------|--------|---------|------------|-------|------------------|
|             |                      |                 |                    |                              |                          | minimum          | approx | maximum |            |       | in air           |
|             | AWG or MCM           | Stranding       | Inches             | Inches                       | Inches                   | Inches           | Inches | Inches  | LBS/1000ft | kg/km | A                |
| DL014       | 14                   | 19#27           | 0.072              | 0.045                        | 0.015                    | 0.176            | 0.192  | 0.236   | 28         | 41    | 35               |
| DL012       | 12                   | 19#25           | 0.091              | 0.045                        | 0.015                    | 0.199            | 0.215  | 0.256   | 38         | 56    | 40               |
| DL010       | 10                   | 27#24           | 0.123              | 0.045                        | 0.030                    | 0.261            | 0.277  | 0.290   | 63         | 93    | 55               |
| DL08        | 8                    | 41/#24          | 0.148              | 0.055                        | 0.030                    | 0.286            | 0.302  | 0.333   | 92         | 136   | 80               |
| DL06        | 6                    | 65/#24          | 0.186              | 0.060                        | 0.030                    | 0.354            | 0.370  | 0.403   | 128        | 191   | 105              |
| DL04        | 4                    | 105/#24         | 0.240              | 0.060                        | 0.030                    | 0.408            | 0.424  | 0.461   | 188        | 280   | 140              |
| DL02        | 2                    | 168/#24         | 0.315              | 0.060                        | 0.045                    | 0.501            | 0.528  | 0.540   | 292        | 435   | 190              |
| DL01        | 1                    | 225/#24         | 0.363              | 0.080                        | 0.045                    | 0.593            | 0.613  | 0.650   | 394        | 587   | 220              |
| DL01/0      | 1/0                  | 273/#24         | 0.417              | 0.080                        | 0.045                    | 0.652            | 0.671  | 0.700   | 468        | 696   | 260              |
| DL02/0      | 2/0                  | 329/#24         | 0.457              | 0.080                        | 0.045                    | 0.691            | 0.711  | 0.740   | 545        | 811   | 300              |
| DL03/0      | 3/0                  | 450/#24         | 0.533              | 0.080                        | 0.045                    | 0.768            | 0.787  | 0.815   | 720        | 1072  | 350              |
| DL04/0      | 4/0                  | 551/#24         | 0.590              | 0.080                        | 0.065                    | 0.850            | 0.884  | 0.890   | 886        | 1320  | 405              |
| DL0262      | 262.6                | 644/#24         | 0.636              | 0.090                        | 0.065                    | 0.931            | 0.950  | 0.990   | 1032       | 1536  | 471              |
| DL0313      | 313.1                | 772/#24         | 0.700              | 0.090                        | 0.065                    | 0.991            | 1.015  | 1.055   | 1209       | 1800  | 511              |
| DL0373      | 373.1                | 925/#24         | 0.772              | 0.090                        | 0.065                    | 1.063            | 1.086  | 1.125   | 1422       | 2116  | 590              |
| DL0444      | 444.4                | 1091/#24        | 0.854              | 0.090                        | 0.065                    | 1.145            | 1.169  | 1.205   | 1652       | 2458  | 656              |
| DL0535      | 535.3                | 1325/#24        | 0.906              | 0.090                        | 0.065                    | 1.196            | 1.220  | 1.300   | 1965       | 2924  | 731              |
| DL0646      | 646.4                | 1584/#24        | 0.996              | 0.090                        | 0.065                    | 1.283            | 1.311  | 1.410   | 2312       | 3441  | 815              |
| DL0777      | 777.7                | 1925/#24        | 1.102              | 0.090                        | 0.065                    | 1.370            | 1.397  | 1.500   | 2778       | 4134  | 905              |
| DL0929      | 929.2                | 2281/#24        | 1.197              | 0.090                        | 0.065                    | 1.484            | 1.511  | 1.610   | 3246       | 4831  | 1005             |
| DL01111     | 1111 MCM             | 2727/24         | 1,325              | 0,140                        | 0.095                    | 1,76             | 1,799  | 1,858   | 4077       | 6067  | 1115             |

### Ampacity

Based on single conductor in free air, 30°C ambient temperature, 90°C conductor temperature  
 Per NEC Table 310.17

For ambient temperature other than 30°C, multiply the allowable ampacities shown above by the appropriate factor shown below.

## Correction factors for ambient temperature

| Temperature of air °C | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-70 | 71-80 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Correct. factor       | 1,04  | 1,0   | 0,96  | 0,91  | 0,87  | 0,82  | 0,76  | 0,71  | 0,58  | 0,41  |

Per NEC Table 310.17

### Standard print legend:

| 1AWG and smaller   | 1/0 AWG and larger   |
|--|--|
| TF CABLE (size) 90C DLO 2KV P-7K-268080-01-MSHA<br>- E193954 (UL) RHW-2 2KV VW-1 SUN RES - CSA<br>205591 RW90 EPR 1000V -40C FT1 FT4 | TF CABLE (size) 90C DLO 2KV P-7K-268080-01-MSHA<br>- E193954 (UL) RHW-2 2KV VW-1 ST1 SUN RES - CSA<br>205591 RW90 EPR 1000V -40C FT1 FT4 TC SR Oil Res |