

# USE-2/RHH/RHW-2 Guide Specifications-Encore Wire Corporation

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## 26 05 19- WIRE AND CABLE TYPE USE-2/RHH/RHW-2

### PART 1 – GENERAL

#### 1.1 – SPECIFICATION INCLUDES

1.1.1 Cable Type: Type USE-2/RHH/RHW-2 for use as services, feeders and branch circuits.

1.1.2 General Applications: Type USE-2/RHH/RHW-2 cable may be used in the following general applications per the National Electrical Code®.

1.1.2.1 In Conduit.

1.1.2.2 In Cable Tray.

1.1.2.3 For Services .

1.1.2.4 For Feeders.

1.1.2.5 For Branch Circuits.

1.1.2.6 Wet or Dry Locations, 90°C and Gasoline and Oil Resistant II .

1.1.2.7 For Direct Burial - Type USE-2

#### 1.2 – SUBMITTALS

1.2.1 Product Data: Submit manufacturer's product data confirming that materials comply with specified requirements and are suitable for the intended application.

1.2.2 Installation Instructions: Manufacturer's installation instructions shall be included in submittal. Industry guides may supplement the manufacturer's instructions.

#### 1.3 REQUIREMENTS

1.3.1 Underwriters Laboratories: Type USE-2/RHH/RHW-2 cable shall meet the following Underwriters Laboratories (UL) standards and listings and additional associated standards (where applicable).

1.3.1.1 UL 44 UL Standard for Cross-linked polyethylene (XLPE) insulation Wires and Cables.

1.3.1.2 UL listed Sunlight Resistant in sizes 10 AWG and larger in all colors.

1.3.1.3 Sizes 1/0 AWG and larger listed for CT use.

1.3.1.4 Sizes 12 AWG and larger shall be rated USE-2/RHH/RHW-2.

1.3.2 ASTM Standards: Type USE-2/RHH/RHW-2 cable shall meet all applicable ASTM standards.

1.3.3 Federal Specifications: Type USE-2/RHH/RHW-2 cable shall meet Federal Specification A-A-59544.

1.3.4 NEMA Standards: Type USE-2/RHH/RHW-2 cable shall meet NEMA WC70/ICEA S-95-658.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURER**

2.1.1 Encore Wire Corporation, 1329 Millwood Road, McKinney, Texas, 75069. Web: <http://www.encorewire.com>

### **2.2 CABLE CONSTRUCTION**

2.2.1 Conductor: The conductor shall be soft annealed copper.

2.2.2 Insulation: The insulation shall be flame-retardant, moisture resistant, thermoset, Cross-linked polyethylene (XLPE).

## **PART 3 - INSTALLATION**

### **3.1 INSTALLATION**

3.1.1 Manufacturer's Instructions: Type USE-2/RHH/RHW-2 cable shall be installed per the manufacturer's published installation instructions. Industry guides may supplement the manufacturer's instructions.

3.1.2 Field Support: Manufacturer shall provide, when requested, field engineering support for Type USE-2/RHH/RHW-2 cable installation.

3.1.3 Manufacturer: Type USE-2/RHH/RHW-2 cable for circuits, feeders and services shall be supplied from a single manufacturer.

3.1.4 Minimum Bend Radius: Bends in Type USE-2/RHH/RHW-2 shall be made so that the cable will not be damaged.

### **3.2 SPECIFIC USES**

3.2.1 Type USE-2/RHH/RHW-2 cable may be used in conduit, raceways and cable trays for services, feeders and branch circuits as specified in the applicable section of the NEC®.

### **3.3 AMPACITY**

3.3.1 The ampacity of Type USE-2/RHH/RHW-2 cable shall be determined in accordance with Table 310.16 of the National Electrical Code®. The installation should not exceed the temperature ratings of the terminations and equipment.