

FLDWC0311 Issue 5 8th February 2012 Page 1 of 2

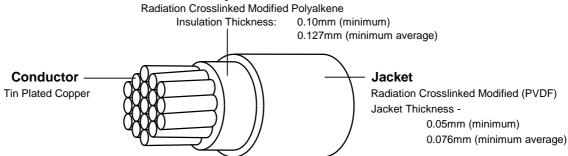
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## DUAL WALL HOOKUP WIRE, TIN PLATED COPPER, RADIATION-CROSSLINKED, MODIFIED POLYALKENE/PVDF INSULATED, 125°C, 600 VOLT

The complete requirements for procuring the wire described herein shall consist of this document, Test Regime WSD3106(UK) and the requirements of the issue is effect of WCD3106, UL style 3584 and shall carry UL labels to that effect.

## **Primary Insulation**



| Part             | Conductor |           |          |      | FINISHED WIRE |       |               |       |         |               |            |
|------------------|-----------|-----------|----------|------|---------------|-------|---------------|-------|---------|---------------|------------|
| Description      | Nominal   | Stranding | Diameter |      | Maximum       | Dia   | Diameter (mm) |       | Nominal | Crosslink     |            |
|                  | CSA       | No./Diam. | (mm)     |      | Resistance    | Lower |               | Upper | Weight  | Verification  | on Test    |
|                  | (mm²)     | (mm)      |          |      | @20°C         | Spec  | Target        | Spec  | (kg/km) | Mandrel Diam. | Weight     |
|                  |           |           | Min.     | Max. | (ohms/km)     | Limit |               | Limit |         | (mm) (±3%)    | (kg) (±3%) |
| FLDWC0311-0.25-* | 0.25      | 19/0.127  | 0.55     | 0.63 | 83.3          | 1.12  | 1.17          | 1.22  | 3.45    | 13            | 0.17       |
| FLDWC0311-0.35-* | 0.35      | 19/0.15   | 0.72     | 0.77 | 56.1          | 1.31  | 1.37          | 1.42  | 4.79    | 19            | 0.17       |
| FLDWC0311-0.50-* | 0.50      | 19/0.19   | 0.86     | 0.88 | 40.1          | 1.46  | 1.51          | 1.56  | 6.46    | 19            | 0.23       |
| FLDWC0311-0.75-* | 0.75      | 19/0.23   | 1.05     | 1.08 | 24.7          | 1.65  | 1.70          | 1.75  | 8.93    | 25            | 0.23       |
| FLDWC0311-1.00-* | 1.00      | 19/0.25   | 1.17     | 1.26 | 20.0          | 1.78  | 1.85          | 1.93  | 10.9    | 25            | 0.23       |
| FLDWC0311-1.50-* | 1.50      | 19/0.32   | 1.35     | 1.58 | 13.7          | 2.19  | 2.27          | 2.34  | 17.9    | 30            | 0.45       |
| FLDWC0311-2.00-* | 2.00      | 19/0.36   | 1.66     | 1.79 | 9.7           | 2.42  | 2.52          | 2.62  | 21.3    | 38            | 0.45       |
| FLDWC0311-2.50-* | 2.50      | 19/0.41   | 1.85     | 2.01 | 8.2           | 2.63  | 2.73          | 2.83  | 27.4    | 50            | 0.68       |

WIRE RATINGS: Temperature Rating :- 125 °C

Voltage Rating :- 600 Volts (rms)

Flame Rating: - VW1

COLOUR CODE: The '\*' in the part number shall be replaced by a standard colour code designator.

e.g., FLDWC0311-1.50-9, 1.50mm<sup>2</sup>, white insulation

ADDITIONAL Crosslink Verification: 300 ±3°C/1 hr. as per WCD3106 clause 3.4.7; voltage withstand - 2.5 kV;

REQUIREMENTS: mandrels & weights as shown above.

Insulation Tensile Strength: 17.2N/mm² minimum Insulation Elongation: 150% minimum

Thermal Stability: Temperature - 158°C; 70% tensile strength & elongation retention

Shrinkage: 3 mm maximum at each end at 125°C/1 hour

Insulation Resistance: 1524 Mohm.km minimum

Spark Test: 8.0 kV

APPROVAL: Electronic sign off - no signatures will appear.

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