

# Doncaster Cables

## TRI-RATED SWITCHGEAR AND PANEL WIRING



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## TRI-RATED SWITCHGEAR AND PANEL WIRING

**Manufactured to:** -BS 6231 Type CK

-Underwriters Laboratory Listed. Conforms to subject 758 Appliance Wiring Material for Styles 1015, 1028, 1283 and 1284 where applicable.

-Canadian Standards Association approved. Complies with Standard C22.2, No.127, Type TEW

**Conductor Stranding:** Flexible Plain Annealed Copper

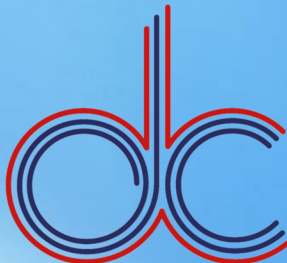
**Oil Resistance:** This cable is recognised by CSA and UL as resistant to oil at temperatures up to 60°C

**Spread of Flame:** Tested to BS EN 50265, VW-1 and FT-1

**Temperature range:** UL and CSA recognised as heat resisting with a maximum conductor operating temperature of 105°C. BS6231 specifies a maximum operating temperature of 90°C for continuous use. Annex A of BS6231 explains how under certain conditions these cables can operate at up to 105°C.

These cables are intended for use in the wiring of switch, control, metering, relay and instrument panels of power switchgear, and for such purposes as internal connections in rectifier equipment and its motor starters and controllers. They are intended for use at alternating voltages not exceeded 600 V to earth, and direct voltages not exceeded 1000V to earth. When installed in the equipment they are suitable for wiring circuits for which the prescribed alternating test voltage does not exceed 4kV r.m.s for 1 minute.

By being approved to three international standards Tri-Rated cable is suitable for equipment installations required to meet both North American and European wiring regulations and codes of practice.



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Reference Number	Nominal Cross Sectional Area of Conductor (mm <sup>2</sup> )	Nominal Stranding of Conductor (mm)	Nominal Overall Diameter (mm)	UL Style Number	Approximate Weight (kg/km)	Maximum Current Rating (Amperes)
TR0.5	0.5	16/0.2	2.6	1015	12	11
TR0.75	0.75	24/0.2	2.8	1015	15	14
TR1.0	1	32/0.2	3	1015	18	17
TR1.5	1.5	30/0.25	3.3	1015	23	21
TR2.5	2.5	50/0.25	3.7	1015	33	30
TR4.0	4	56/0.3	4.3	1015	51	41
TR6.0	6	84/0.3	5.3	1015	73	53
TR710	10	80/0.4	7.1	1028	124	75
TR716	16	126/0.4	8.7	1283	200	100
TR725	25	196/0.4	10.3	1283	295	136
TR735	35	276/0.4	11.7	1283	406	167
TR750	50	396/0.4	14.5	1284	614	204
TR770	70	360/0.5	16.7	1284	795	259
TR795	95	475/0.5	18.9	1284	1011	321
*TR8120	120	608/0.5	20.4	1284	1256	374

### Current Ratings Based On:

1. Single conductor in free air
2. Ambient temperature of 35°C
3. Conductor temperature rise of 35°C

Weight and dimensional information is provided as an approximate guide only.

\*Not BASEC Approved

## Product Certification Schedule

Schedule No: 040/001/329  
Licensee: DONCASTER CABLES, ARKSEY LANE, BENTLEY, DONCASTER, DN5 0SJ  
Factory: DONCASTER CABLES, ARKSEY LANE, BENTLEY, DONCASTER, DN5 0SJ  
Specification: BS 6231:2006 Incorporating Corrigendum No.1 PVC-insulated cables for switchgear and controlgear wiring  
Type of Cable: Table 2 - PVC insulated flexible cable - Type CK  
HAR Document: Not applicable  
HAR Specification: Not applicable  
Range of Approval: 0.5sqmm to 95sqmm nominal cross-sectional area of conductors inclusive. Insulation - T13  
Origin Thread: BLUE/BROWN/GREY/ORANGE  
Origin Mark: DONCASTER CABLES or GB CABLES

### PERMISSIBLE MARKS



# BASEC

YELLOW  
ACETATE  
THREAD

Please refer to the BASEC Product Certification Requirements

Expiry Date: 05/02/2020

Signed for and on behalf of the British Approvals Service for Cables

Date 23/01/2017

This Certificate and Schedule(s) remains the property of BASEC, and shall be returned when required.



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# Certificate of Compliance

**Certificate:** 1672361

**Master Contract:** 230193

**Project:** 1672361

**Date Issued:** June 2, 2005

**Issued to:** Doncaster Cables  
Millfields Industrial Estate  
Arksey Lane  
Bentley, Doncaster  
South Yorkshire, DN5 0SJ  
United Kingdom  
**Attention:** Mr. Terry Guest  
Factory Manager

**The products listed below are eligible to bear the CSA Mark shown**



**Issued by:** Lina Bartolotta

**Authorized by:** Calvin McKenzie  
Product Group Manager

## **PRODUCTS**

CLASS 5835 01 WIRES Equipment

Type TEW, max temperature rating 105C, 600V, FT1, sizes 26-4/0 AWG. Oil resistance rating 60C.

Note: Approved in single conductor construction only, no shielding or covering.

## **APPLICABLE REQUIREMENTS**

CSA Standard C22.2 No 127-99 – Equipment and Lead Wires

## **MARKINGS**

The CSA Mark, the company name or tradename/trademark or file number 230193, model designation and any other information as specified in the Certification Report.

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20130827-E132736  
**Report Reference** E132736-19901022  
**Issue Date** 2013-AUGUST-27

**Issued to:** DONCASTER CABLES  
MILLFIELDS IND ESTATE ARKSEY LANE, BENTLEY  
DONCASTER SOUTH YORKSHIRE, DN5 0SJ UNITED  
KINGDOM


**This is to certify that  
representative samples of**

COMPONENT - APPLIANCE WIRING MATERIAL  
SINGLE-CONDUCTOR THERMOPLASTIC-INSULATED  
WIRE:  
1011, 1013, 1015, 1017, 1019, 1020, 1021, 1022, 1023, 1024,  
1026, 1027, 1028, 1030, 1032, 1054, 1055, 1056, 1057, 1058, 10  
59, 1060, 1283, 1284

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** Appliance Wiring Material UL 758  
**Additional Information:** See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Recognized Component Mark should be considered as being covered by UL's Recognition and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Recognized Component Mark on the product.



William R. Carney, Director, North American Certification Programs  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at [www.ul.com/contactus](http://www.ul.com/contactus)

