

Doncaster Cables

TRI-RATED

SWITCHGEAR AND PANEL WIRING CABLES

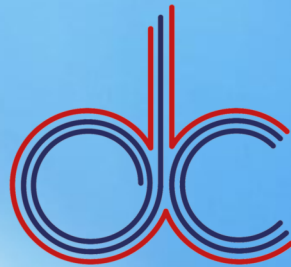


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SWITCHGEAR AND PANEL WIRING CABLES

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.



PRODUCT MARKING LICENCE NO: 040/001

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SWITCHGEAR AND PANEL WIRING CABLES

Reference Number	Nominal Cross Sectional Area of Conductor (mm ²)	Nominal Stranding of Conductor (mm)	Nominal Overall Diameter (mm)	UL Style Number	Maximum Current Rating (Amperes)	Approximate Weight (kg/km)
TR0.5	0.50	16/0.2	2.6	1015	11	12
TR0.75	0.75	24/0.2	2.8	1015	14	15
TR1.0	1.00	32/0.2	3.0	1015	17	18
TR1.5	1.50	30/0.25	3.3	1015	21	23
TR2.5	2.5	50/0.25	3.7	1015	30	33
TR4.0	4.0	56/0.3	4.3	1015	41	51
TR6.0	6.0	84/0.3	5.3	1015	53	73
TR710	10.0	80/0.4	7.1	1028	75	124
TR716	16.0	126/0.4	8.7	1283	100	200
TR725	25.0	196/0.4	10.3	1283	136	295
TR735	35.0	276/0.4	11.7	1283	167	406
TR750	50.0	396/0.4	14.5	1284	204	614
TR770	70.0	360/0.5	16.7	1284	259	795
TR795	95.0	475/0.5	18.9	1284	321	1011
*TR8120	120.0	608/0.5	20.4	1284	374	1256

- Current Ratings Based On:**
1. Single conductor in free air
 2. Ambient temperature of 35°C
 3. Conductor temperature rise of 35°C

De-rating Factors For Cables In Groups

Number of cores	2	3	4	5	6	8	10
Correction Factor	0.8	0.69	0.62	0.59	0.55	0.51	0.48

* 120mm² is NOT BASEC APPROVED. Weight and dimensional information is provided as an approximate guide only.

Product Certification Schedule

Schedule No: 040/001/210
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 - TI3
Origin Thread: BLUE/BROWN/GREY/ORANGE
Origin Mark: DONCASTER CABLES



PERMISSIBLE MARKS

BASEC

YELLOW
ACETATE
THREAD

Please refer to the BASEC Product Certification Requirements

Expiry Date: 05/02/2014

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

Date 28/01/2011



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

004



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.

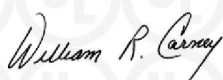
Standard(s) for Safety: Appliance Wiring Material UL 758
Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

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

