



# K. LACEY WIRES AND CABLES

## TC12

### CONSTRUCTION

Tinned Copper Wire Conductor BS6360 Class 5  
Dual Extruded layer of LFH Insulation. Standard Colour Black

### SPECIFICATION

EN 50264

### SCOPE

Traction/Vehicle Cable. Low Smoke/Zero Halogen. 0.6 / 1.0 kV  
Small size, low weight and high flexibility make it an ideal choice for areas where space is limited and weight is critical. Its superior fluid resistance, operating temperature and voltage range allow TC12 to be used in any environment.

Operating Temperature from -30°C to +105°C Continuous (20,000 hours @ 120°C)  
600/1000V. Test Voltage 6kV AC

Good resistance to fuels, diesel, engine, transformer and hydraulic oils.

Fire Performance : BS6853 Cat. 1a, 1b & 2. NF F 16 101 F0

Flexibility : <500,000 cycles to IEC227

Note : 1.8 / 3.3 kV version also available to special order

| Conductor               |              |                |   | Finished Cable |                      |                            |  |
|-------------------------|--------------|----------------|---|----------------|----------------------|----------------------------|--|
| Area<br>mm <sup>2</sup> | Strand<br>mm | Diameter<br>mm | Max. DC<br>Conductor<br>Resistance<br>@ 20°C Ω/Km | AMP<br>Rating  | O/Dia.<br>Nom.<br>mm | Max.<br>Weight.<br>Kg / km |  |
| 0.50                    | 16/0.20      | 0.93           | 40.10   | 005            | 02.50                | 11                         |  |
| 0.75                    | 24/0.20      | 1.14           | 26.70   | 007            | 02.70                | 14                         |  |
| 1.00                    | 32/0.20      | 1.32           | 20.00   | 013            | 03.00                | 18                         |  |
| 1.50                    | 30/0.25      | 1.60           | 13.70   | 017            | 03.30                | 22                         |  |
| 2.50                    | 50/0.25      | 2.00           | 8.21  | 023            | 03.80                | 33                         |  |
| 4.00                    | 56/0.30      | 2.60           | 5.09  | 030            | 04.30                | 49                         |  |
| 6.00                    | 84/0.30      | 3.50           | 3.39  | 042            | 05.10                | 75                         |  |
| 10.00                   | 80/0.40      | 4.40           | 1.95  | 060            | 06.50                | 124                        |  |
| 16.00                   | 126/0.40     | 5.50           | 1.24  | 081            | 07.70                | 183                        |  |
| 25.00                   | 196/0.40     | 7.00           | 0.795   | 110            | 09.60                | 282                        |  |
| 35.00                   | 276/0.40     | 8.50           | 0.565   | 140            | 11.10                | 389                        |  |
| 50.00                   | 396/0.40     | 10.00          | 0.393   | 180            | 12.90                | 551                        |  |
| 70.00                   | 360/0.50     | 11.70          | 0.277   | 225            | 15.00                | 747                        |  |
| 95.00                   | 475/0.50     | 13.50          | 0.210   | 270            | 16.80                | 975                        |  |
| 120.00                  | 608/0.50     | 15.40          | 0.164   | 320            | 18.70                | 1229                       |  |
| 150.00                  | 756/0.50     | Tba            | 0.132   | 656            | 21.10                | 1538                       |  |
| 185.00                  | 925/0.50     | Tba            | 0.108   | 750            | 22.90                | 1859                       |  |
| 240.00                  | 1221/0.50    | Tba            | 0.0817  | 906            | 26.20                | 2444                       |  |
| 300.00                  | 1525/0.25    | Tba            | 0.0654  | 1051           | 29.00                | 3031                       |  |
| 400.00                  | 2013.50      | Tba            | 0.0495  | 1278           | 34.50                | 3987                       |  |

Minimum Bending Radius :

Flexing : D≤10mm 3 x D  
D>10mm 5 x D

Static : D≤10mm 3 x D  
D>10mm 4 x D

Note : This cable has been endorsed by Qinetiq as suitable for use as a replacement for Unipren cable to BS2E21 (now obsolete). It combines the advantages of excellent flexibility and fluid resistance with a zero halogen composition.

## CONTACT US NOW FOR A QUOTATION

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