

## 658TQ Armoured Cable BS6883 600/1000V Type SW4

|                               |   |
|-------------------------------|---|
| <b>Applications:</b>          | Fixed installations in all areas and on open decks in ships and offshore units  |
| <b>Conductor:</b>             | Tinned annealed stranded copper – class 2   |
| <b>Core Identification:</b>   | White cores with black numbers  |
| <b>Insulation:</b>            | EPR (Ethylene Propylene Rubber)   |
| <b>Sheath/Jacket:</b>         | Low Smoke Zero Halogen (ZHAL), type: SW4  |
| <b>Colour:</b>                | Black   |
| <b>Voltage:</b>               | 600/1000v   |
| <b>Operating Temperature:</b> | Maximum 90°C, minimum bending -25°C   |
| <b>Bending Radius:</b>        | 6 x overall diameter  |
| <b>Standards:</b>             | BS6883: shipboard cable, BSEN60228:2005 (previously BS6360): specification for electrical conductors in insulated cable, BS7655-1.2 & BS7655-2.6: specifications for cable insulation<br>Flame retardant: BS EN 50266-2-2 Category A/F, IEC 60332-3-22<br>Smoke emission: BS EN 61034-2, IEC 61034-2<br>Gases evolved during combustion: BS EN 50267-2-1, IEC 60754-1: ≤ 0,5 % acid gas |
| <b>Approval:</b>              | Lloyds Register   |



### Two Core: 6582TQ Galvanised Steel Wire Braid

| Size<br>sq.mm | Nom diam<br>over laid<br>up cores | RT of<br>bedding mm | Nom diam<br>over bedding<br>mm | Diam of<br>braid wire<br>mm | Diam over<br>braid mm | Nom overall<br>diameter in<br>mm | Weight<br>kg/km | BATT part<br>no |
|---------------|-----------------------------------|---------------------|--------------------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------------|
| 1             | 5.6                               | 1.0                 | 8.0                            | 0.3                         | 9.5                   | 12.1                             | 230             | 67150           |
| 1.5           | 6.2                               | 1.1                 | 8.6                            | 0.3                         | 10.1                  | 12.7                             | 250             | 67343           |
| 2.5           | 7.2                               | 1.1                 | 9.8                            | 0.3                         | 11.3                  | 13.9                             | 305             | 67061           |
| 4             | 9.2                               | 1.2                 | 12.0                           | 0.3                         | 13.5                  | 16.3                             | 420             | 67130           |
| 6             | 10.4                              | 1.2                 | 13.1                           | 0.3                         | 14.6                  | 17.6                             | 515             | 67008           |
| 10            | 13.0                              | 1.3                 | 16.0                           | 0.3                         | 17.5                  | 20.7                             | 725             | 67110           |
| 16            | 15.0                              | 1.4                 | 18.3                           | 0.3                         | 19.8                  | 23.4                             | 975             | 67115           |
| 25            | 19.2                              | 1.5                 | 22.9                           | 0.3                         | 24.4                  | 28.1                             | 1340            | 67158           |
| 35            | 21.0                              | 1.6                 | 24.7                           | 0.3                         | 26.2                  | 30.1                             | 1540            | 67737           |
| 50            | 24.2                              | 1.7                 | 28.4                           | 0.45                        | 30.6                  | 35.1                             | 2140            | -               |
| 70            | 27.8                              | 1.9                 | 32.3                           | 0.45                        | 34.6                  | 39.3                             | 2820            | 67166           |
| 95            | 32.2                              | 2.1                 | 37.0                           | 0.45                        | 39.3                  | 44.4                             | 3690            | 67147           |
| 120           | 35.6                              | 2.2                 | 40.8                           | 0.45                        | 43.1                  | 48.5                             | 4380            | -               |
| 150           | 39.6                              | 2.3                 | 45.1                           | 0.45                        | 47.4                  | 53.4                             | 5360            | -               |
| 185           | 44.0                              | 2.5                 | 50.0                           | 0.45                        | 52.3                  | 58.8                             | 6550            | -               |
| 240           | 50.0                              | 2.8                 | 56.6                           | 0.45                        | 58.9                  | 65.8                             | 8310            | -               |
| 300           | 55.8                              | 3.0                 | 62.7                           | 0.45                        | 65.0                  | 72.7                             | 10200           | -               |

### Three Core: 6583TQ Galvanised Steel Wire Braid

| Size<br>sq.mm | Nom diam<br>over laid<br>up cores | RT of<br>bedding mm | Nom diam<br>over bedding<br>mm | Diam of<br>braid wire<br>mm | Diam over<br>braid mm | Nom overall<br>diameter in<br>mm | Weight<br>kg/km | BATT part<br>no |
|---------------|-----------------------------------|---------------------|--------------------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------------|
| 1             | 6.2                               | 1.1                 | 8.4                            | 0.3                         | 9.9                   | 12.5                             | 245             | -               |
| 1.5           | 6.9                               | 1.1                 | 9.3                            | 0.3                         | 10.8                  | 13.4                             | 280             | 67401           |
| 2.5           | 7.9                               | 1.1                 | 10.4                           | 0.3                         | 11.9                  | 14.7                             | 360             | 67575           |
| 4             | 10.1                              | 1.2                 | 12.7                           | 0.3                         | 14.2                  | 17.0                             | 475             | 67576           |
| 6             | 11.4                              | 1.2                 | 13.9                           | 0.3                         | 15.4                  | 18.4                             | 586             | 67612           |
| 10            | 14.2                              | 1.3                 | 17.2                           | 0.3                         | 18.7                  | 22.1                             | 860             | 67605           |
| 16            | 16.4                              | 1.4                 | 19.5                           | 0.3                         | 21.0                  | 24.6                             | 1150            | 67134           |
| 25            | 20.8                              | 1.6                 | 24.4                           | 0.3                         | 25.9                  | 29.8                             | 1640            | 67609           |
| 35            | 22.8                              | 1.7                 | 26.5                           | 0.3                         | 28.8                  | 33.1                             | 2030            | 67118           |
| 50            | 26.2                              | 1.8                 | 30.3                           | 0.45                        | 32.6                  | 37.2                             | 2640            | 67611           |
| 70            | 30.1                              | 2.0                 | 34.7                           | 0.45                        | 37.0                  | 41.9                             | 3480            | 67719           |
| 95            | 34.8                              | 2.2                 | 39.7                           | 0.45                        | 42.0                  | 47.6                             | 4650            | 67152           |
| 120           | 38.5                              | 2.3                 | 43.8                           | 0.45                        | 46.1                  | 52.0                             | 5540            | 67675           |
| 150           | 42.8                              | 2.5                 | 48.4                           | 0.45                        | 50.7                  | 57.9                             | 6770            | 67154           |
| 185           | 47.5                              | 2.7                 | 53.9                           | 0.45                        | 56.2                  | 62.9                             | 8310            | 67608           |
| 240           | 54.0                              | 2.9                 | 61.1                           | 0.45                        | 63.4                  | 70.6                             | 10680           | -               |
| 300           | 60.2                              | 3.2                 | 67.6                           | 0.45                        | 69.9                  | 77.9                             | 13100           | -               |

#### Four Core: 6584TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1          | 7.0                         | 1.1              | 9.3                      | 0.3                   | 10.8               | 13.4                       | 300          | -            |
| 1.5        | 7.8                         | 1.1              | 10.1                     | 0.3                   | 11.6               | 14.2                       | 320          | 67006        |
| 2.5        | 9.0                         | 1.1              | 11.4                     | 0.3                   | 12.9               | 15.7                       | 410          | 67119        |
| 4          | 11.4                        | 1.2              | 13.9                     | 0.3                   | 15.4               | 18.4                       | 570          | 67125        |
| 6          | 12.9                        | 1.3              | 15.4                     | 0.3                   | 16.9               | 20.1                       | 720          | 67132        |
| 10         | 16.0                        | 1.4              | 18.9                     | 0.3                   | 20.4               | 24.0                       | 1050         | 67699        |
| 16         | 18.4                        | 1.5              | 21.7                     | 0.3                   | 23.2               | 26.9                       | 1410         | 67613        |
| 25         | 23.5                        | 1.7              | 25.8                     | 0.3                   | 28.1               | 33.6                       | 2160         | 67615        |
| 35         | 25.7                        | 1.8              | 27.8                     | 0.3                   | 30.1               | 36.1                       | 2510         | 67135        |
| 50         | 29.5                        | 1.9              | 32.0                     | 0.45                  | 34.3               | 41.0                       | 3290         | 67136        |
| 70         | 33.9                        | 2.1              | 36.1                     | 0.45                  | 38.5               | 46.1                       | 4410         | 67142        |
| 95         | 39.2                        | 2.3              | 42.1                     | 0.45                  | 44.4               | 52.6                       | 5880         | 67143        |
| 120        | 43.4                        | 2.5              | 45.8                     | 0.45                  | 48.1               | 57.4                       | 7050         | 67718        |
| 150        | 48.0                        | 2.7              | 50.5                     | 0.45                  | 52.8               | 63.1                       | 8620         | 67703        |
| 185        | 53.4                        | 2.9              | 56.1                     | 0.45                  | 58.5               | 69.6                       | 10620        | 67614        |
| 240        | 60.7                        | 3.2              | 65.8                     | 0.45                  | 68.1               | 78.3                       | 13580        | -            |
| 300        | 67.7                        | 3.5              | 73.5                     | 0.45                  | 75.8               | 82.6                       | 16760        | -            |

#### Five Core: 6585TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1.5        | 8.7                         | 0.8              | 11.0                     | 0.3                   | 12.7               | 15.6                       | 370          | 68345        |
| 2.5        | 10.0                        | 0.8              | 12.6                     | 0.3                   | 14.3               | 17.4                       | 470          | -            |
| 4          | 12.7                        | 1.0              | 15.3                     | 0.3                   | 17.0               | 20.3                       | 680          | -            |

#### Six Core: 6586TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1.5        | 9.6                         | 1.2              | 12.2                     | 0.3                   | 13.9               | 17.0                       | 420          | 67157        |
| 2.5        | 11.1                        | 1.2              | 13.7                     | 0.3                   | 15.4               | 18.5                       | 545          | 67471        |
| 4          | 14.1                        | 1.3              | 16.7                     | 0.3                   | 18.4               | 21.7                       | 765          | 67016        |

#### Seven Core: 6587TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1.5        | -                           | 1.2              | -                        | 0.3                   | -                  | -                          | -            | 67404        |
| 2.5        | -                           | 1.2              | -                        | 0.3                   | -                  | -                          | -            | 67709        |
| 4          | -                           | 1.3              | -                        | 0.3                   | -                  | -                          | -            | -            |

#### Eight Core: 6588TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1.5        | 10.5                        | 1.2              | 13.3                     | 0.3                   | 15.0               | 18.1                       | 545          | 67767        |
| 2.5        | 12.3                        | 1.3              | 15.5                     | 0.3                   | 17.2               | 20.5                       | 735          | 67846        |
| 4          | 15.4                        | 1.4              | 18.5                     | 0.3                   | 20.2               | 23.7                       | 1000         | -            |

#### Ten Core: 658/10TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|

|     | up cores |     | mm   | mm  |      | mm   |      |   |
|-----|----------|-----|------|-----|------|------|------|---|
| 1.5 | 12.6     | 1.3 | 16.2 | 0.3 | 17.9 | 21.2 | 640  | - |
| 2.5 | 14.6     | 1.4 | 17.7 | 0.3 | 19.4 | 22.9 | 902  | - |
| 4   | 18.4     | 1.5 | 21.7 | 0.3 | 23.4 | 27.1 | 1170 | - |

#### Twelve Core: 658/12TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1.5        | 13.1                        | 1.3              | 16.7                     | 0.3                   | 18.4               | 21.7                       | 685          | 67782        |
| 2.5        | 15.2                        | 1.4              | 18.8                     | 0.3                   | 20.5               | 24.0                       | 919          | 67704        |
| 4          | 19.1                        | 1.6              | 22.6                     | 0.3                   | 24.3               | 28.2                       | 1240         | 67230        |

#### Sixteen Core: 658/16TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1.5        | 14.8                        | 1.4              | 17.9                     | 0.3                   | 19.6               | 23.1                       | 791          | -            |
| 2.5        | 17.2                        | 1.5              | 20.5                     | 0.3                   | 22.2               | 25.9                       | 840          | -            |

#### Nineteen Core: 658/19TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1.5        | 15.7                        | 1.4              | 18.7                     | 0.3                   | 2.4                | 23.9                       | 871          | 67175        |
| 2.5        | 18.3                        | 1.5              | 21.5                     | 0.3                   | 23.2               | 26.9                       | 1190         | 67834        |

#### Twenty One Core: 658/21TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1.5        | 16.8                        | 1.5              | 20.0                     | 0.3                   | 21.7               | 25.4                       | 984          | -            |
| 2.5        | 19.5                        | 1.6              | 22.9                     | 0.3                   | 24.6               | 28.5                       | 1320         | -            |

#### Twenty Four Core: 658/24TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1.5        | 18.8                        | 1.6              | 22.3                     | 0.3                   | 24.0               | 27.9                       | 1130         | -            |
| 2.5        | 21.9                        | 1.7              | 25.6                     | 0.45                  | 28.1               | 32.2                       | 1650         | -            |

#### Twenty Seven Core: 658/27TQ Galvanised Steel Wire Braid

| Size sq.mm | Nom diam over laid up cores | RT of bedding mm | Nom diam over bedding mm | Diam of braid wire mm | Diam over braid mm | Nom overall diameter in mm | Weight kg/km | BATT part no |
|------------|-----------------------------|------------------|--------------------------|-----------------------|--------------------|----------------------------|--------------|--------------|
| 1.5        | 19.3                        | 1.6              | 22.7                     | 0.3                   | 24.4               | 28.3                       | 1210         | 67018        |
| 2.5        | 22.4                        | 1.7              | 26.0                     | 0.45                  | 28.5               | 32.6                       | 1760         | 67459        |