



# Doncaster Cables

## SWA (H694-XL)

**CU / XLPE / PVC / SWA / PVC**

Manufactured to BS 5467 Table 6 (2 Core) Table 8 (3 Core) Table 10 (4 Core) Table 13 (5 Core)

Plain Annealed Copper Conductor / XLPE Insulated / PVC Bedded / Galvanised Steel Wire Armour / PVC Sheathed. 600/1000V

|                           |   |
|---------------------------|---|
| <b>Conductor :</b>        | Plain Annealed Copper Class 2 Stranded to BS EN 60228                     |
| <b>Insulation:</b>        | Thermosetting XLPE Type GP8 to BS 7655-1.3                                |
| <b>Bedding:</b>           | Compatible Polymeric Material (PVC)                                       |
| <b>Steel Wire Armour:</b> | Galvanised Steel Wire   |
| <b>Sheathing:</b>         | PVC Type 9 to BS 7655-4.2   |
| <b>Current Ratings:</b>   | For current ratings refer to table 4E4A of BS7671 IEE Wiring Regulations. |

Steel Wire Armoured cables are predominantly used for industrial wiring and mains distribution. They are designed to be used in industrial areas , in and around buildings and other similar environments.

These cables are designed to be installed in air, clipped to surface, on cable tray/ ladder work, embedded in concrete and buried direct or in ducting underground

|                                      |                                      |                                      |                               |
|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------|
| <b>STANDARD CORE COLOURS</b>         | <b>MINIMUM OPERATING TEMPERATURE</b> | <b>MAXIMUM OPERATING TEMPERATURE</b> | <b>MINIMUM BENDING RADIUS</b> |
| 2 CORE<br>3 CORE<br>4 CORE<br>5 CORE |                                      |                                      |                               |





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| Reference Number | Number and Nominal Cross Sectional Area of Conductors (mm <sup>2</sup> ) | Nominal Stranding of Conductor (mm) | Nominal Thickness of Insulation (mm) | Nominal Thickness of Extruded Bedding (mm) | Nominal Steel Armour Wire Diameter (mm) | Nominal Thickness of Oversheath (mm) | Approximate Overall Diameter (mm) | Approximate Weight (kg/km) | Recommended Gland Size |
|------------------|--|-------------------------------------|--------------------------------------|--|---|--------------------------------------|-----------------------------------|----------------------------|------------------------|
| H6942XL1.5       | 2 x 1.5  | 7/0.53                              | 0.6                                  | 0.8  | 0.9                                     | 1.3                                  | 11.0                              | 240                        | 20S                    |
| H6942XL2.5       | 2 x 2.5  | 7/0.67                              | 0.7                                  | 0.8  | 0.9                                     | 1.4                                  | 12.6                              | 260                        | 20S                    |
| H6942XL4.0       | 2 x 4.0  | 7/0.85                              | 0.7                                  | 0.8  | 0.9                                     | 1.4                                  | 13.4                              | 340                        | 20S                    |
| H6942XL6.0       | 2 x 6.0  | 7/1.04                              | 0.7                                  | 0.8  | 0.9                                     | 1.4                                  | 13.7                              | 400                        | 20S                    |
| H6942XL710       | 2 x 10.0   | 7/1.35                              | 0.7                                  | 0.8  | 0.9                                     | 1.5                                  | 16.4                              | 620                        | 20                     |
| H6942XL716       | 2 x 16.0   | 7/1.70                              | 0.7                                  | 0.8  | 1.25                                    | 1.5                                  | 20.0                              | 780                        | 25                     |
| H6942XL725       | 2 x 25.0   | 7/2.14                              | 0.9                                  | 0.8  | 1.25                                    | 1.6                                  | 23.8                              | 1000                       | 25                     |
| H6942XL735       | 2 x 35.0   | 7/2.52                              | 0.9                                  | 1.0  | 1.6                                     | 1.7                                  | 27.7                              | 1350                       | 32                     |
| H6942XL750       | 2 x 50.0   | COMPACTED                           | 1.0                                  | 1.0  | 1.6                                     | 1.8                                  | 25.8                              | 1700                       | 25                     |
| H6943XL1.5       | 3 x 1.5  | 7/0.53                              | 0.6                                  | 0.8  | 0.9                                     | 1.3                                  | 11.9                              | 260                        | 20S                    |
| H6943XL2.5       | 3 x 2.5  | 7/0.67                              | 0.7                                  | 0.8  | 0.9                                     | 1.4                                  | 12.6                              | 320                        | 20S                    |
| H6943XL4.0       | 3 x 4.0  | 7/0.85                              | 0.7                                  | 0.8  | 0.9                                     | 1.4                                  | 13.6                              | 440                        | 20S                    |
| H6943XL6.0       | 3 x 6.0  | 7/1.04                              | 0.7                                  | 0.8  | 0.9                                     | 1.4                                  | 14.9                              | 610                        | 20                     |
| H6943XL710       | 3 x 10.0   | 7/1.35                              | 0.7                                  | 0.8  | 1.25                                    | 1.5                                  | 18.3                              | 840                        | 20                     |
| H6943XL716       | 3 x 16.0   | 7/1.70                              | 0.7                                  | 0.8  | 1.25                                    | 1.6                                  | 20.4                              | 1075                       | 25                     |
| H6943XL725       | 3 x 25.0   | 7/2.14                              | 0.9                                  | 1.0  | 1.6                                     | 1.7                                  | 25.2                              | 1450                       | 32                     |
| H6943XL735       | 3 x 35.0   | 7/2.52                              | 0.9                                  | 1.0  | 1.6                                     | 1.8                                  | 28.8                              | 1850                       | 32                     |
| H6943XL750       | 3 x 50.0   | COMPACTED                           | 1.0                                  | 1.0  | 1.6                                     | 1.8                                  | 28.5                              | 2300                       | 32                     |
| H6943XL770       | 3 x 70.0   | COMPACTED                           | 1.1                                  | 1.0  | 1.6                                     | 1.9                                  | 32.2                              | 3125                       | 32                     |
| H6943XL795       | 3 x 95.0   | COMPACTED                           | 1.1                                  | 1.2  | 2.0                                     | 2.1                                  | 37.0                              | 4250                       | 40                     |

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



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|------------------|--|-------------------------------------|--------------------------------------|--|---|--------------------------------------|-----------------------------------|----------------------------|------------------------|
| H6944XL1.5       | 4 x 1.5  | 7/0.53                              | 0.6                                  | 0.8  | 0.9                                     | 1.3                                  | 12.1                              | 290                        | 20S                    |
| H6944XL2.5       | 4 x 2.5  | 7/0.67                              | 0.7                                  | 0.8  | 0.9                                     | 1.4                                  | 13.5                              | 370                        | 20S                    |
| H6944XL4.0       | 4 x 4.0  | 7/0.85                              | 0.7                                  | 0.8  | 0.9                                     | 1.4                                  | 14.7                              | 590                        | 20                     |
| H6944XL6.0       | 4 x 6.0  | 7/1.04                              | 0.7                                  | 0.8  | 1.25                                    | 1.5                                  | 16.6                              | 680                        | 20                     |
| H6944XL710       | 4 x 10.0   | 7/1.35                              | 0.7                                  | 0.8  | 1.25                                    | 1.5                                  | 20.5                              | 960                        | 25                     |
| H6944XL716       | 4 x 16.0   | 7/1.70                              | 0.7                                  | 0.8  | 1.25                                    | 1.6                                  | 22.8                              | 1400                       | 25                     |
| H6944XL725       | 4 x 25.0   | 7/2.14                              | 0.9                                  | 1.0  | 1.6                                     | 1.7                                  | 27.8                              | 1900                       | 32                     |
| H6944XL735       | 4 x 35.0   | 7/2.52                              | 0.9                                  | 1.0  | 1.6                                     | 1.8                                  | 31.0                              | 2400                       | 32                     |
| H6944XL750       | 4 x 50.0   | COMPACTED                           | 1.0                                  | 1.0  | 1.6                                     | 1.9                                  | 32.0                              | 2775                       | 32                     |
| H6944XL770       | 4 x 70.0   | COMPACTED                           | 1.1                                  | 1.2  | 2.0                                     | 2.1                                  | 37.7                              | 4050                       | 40                     |
| H6944XL795       | 4 x 95.0   | COMPACTED                           | 1.1                                  | 1.2  | 2.0                                     | 2.2                                  | 41.7                              | 5300                       | 50                     |
| H6944XL8120      | 4 x 120.0  | COMPACTED                           | 1.2                                  | 1.4  | 2.5                                     | 2.3                                  | 47.1                              | 6950                       | 50                     |
| H6944XL8150      | 4 x 150.0  | COMPACTED                           | 1.4                                  | 1.4  | 2.5                                     | 2.4                                  | 51.4                              | 8275                       | 50                     |
| H6944XL8185      | 4 x 185.0  | COMPACTED                           | 1.6                                  | 1.4  | 2.5                                     | 2.6                                  | 56.6                              | 10025                      | 63                     |
| H6944XL8240      | 4 x 240.0  | COMPACTED                           | 1.7                                  | 1.6  | 2.5                                     | 2.7                                  | 63.0                              | 12625                      | 63                     |
| H6944XL8300      | 4 x 300.0  | COMPACTED                           | 1.8                                  | 1.6  | 2.5                                     | 2.9                                  | 68.8                              | 15323                      | 75                     |
| H6944XL8400      | 4 x 400.0  | COMPACTED                           | 2.0                                  | 1.8  | 3.15                                    | 3.2                                  | 78.1                              | 21850                      | 75                     |
|                  |  |                                     |                                      |  |   |                                      |                                   |                            |                        |
| H6945XL1.5       | 5 x 1.5  | 7/0.53                              | 0.6                                  | 0.8  | 0.9                                     | 1.4                                  | 12.8                              | 433                        | 20S                    |
| H6945XL2.5       | 5 x 2.5  | 7/0.67                              | 0.7                                  | 0.8  | 0.9                                     | 1.4                                  | 14.5                              | 530                        | 20S                    |
| H6945XL4.0       | 5 x 4.0  | 7/0.85                              | 0.7                                  | 0.8  | 0.9                                     | 1.5                                  | 16.8                              | 775                        | 20                     |
| H6945XL6.0       | 5 x 6.0  | 7/1.04                              | 0.7                                  | 0.8  | 1.25                                    | 1.5                                  | 17.9                              | 929                        | 25                     |
| H6945XL710       | 5 x 10.0   | 7/1.35                              | 0.7                                  | 0.8  | 1.25                                    | 1.6                                  | 21.6                              | 1300                       | 25                     |
| H6945XL716       | 5 x 16.0   | 7/1.70                              | 0.7                                  | 1.0  | 1.6                                     | 1.7                                  | 26.3                              | 1880                       | 25                     |
| H6945XL725       | 5 x 25.0   | 7/2.14                              | 0.9                                  | 1.0  | 1.6                                     | 1.8                                  | 30.9                              | 2670                       | 40                     |

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