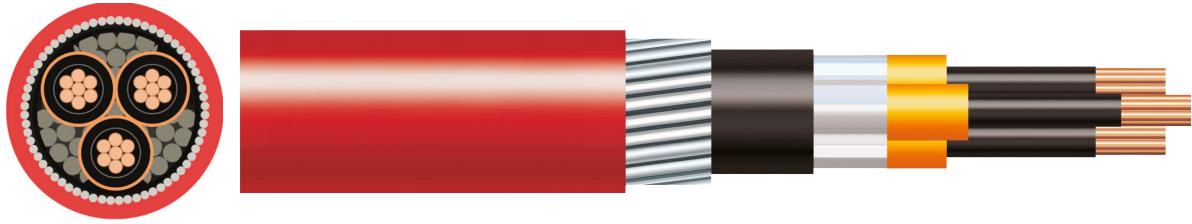


MEDIUM VOLTAGE SWA LSZH COPPER BS7835



BS7835-compliant medium voltage armoured cables, featuring stranded copper conductors, are ideal for outdoor use, direct burial, and cable ducting. They're designed for medium voltage power transmission in various applications.

| | |
|-------------------------------|------------------------------------|
| CONDUCTOR | Plain Copper |
| STRANDING | Class 2 |
| INSULATION | XLPE |
| METALLIC SCREEN | Plain Copper Taped Screen |
| BEDDING | LSZH |
| ARMOUR | Steel Wire Armour |
| OUTERSHEATH | LSZH |
| OUTERSHEATH COLOUR | Red |
| RATED VOLTAGE | 6.35/11kV |
| CORE IDENTIFICATION | Coloured Tapes: Brown, Black, Grey |
| MINIMUM BENDING RADIUS | 12 x Overall Diameter |
| OPERATING TEMPERATURE | 90°C |
| STANDARDS | BS7835, BS EN 60332-1-2 |

SPECIFICATION DATA

DE-RATING FACTORS

| | | | | | | | |
|---------------------------------|------|------|------|------|------|------|------|
| Air Temperature °C | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| De-Rating Factor | 1 | 0.96 | 0.92 | 0.88 | 0.83 | 0.78 | 0.73 |
| Ground Temperature °C | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| De-Rating Factor | 1.03 | 1 | 0.97 | 0.93 | 0.89 | 0.86 | 0.82 |
| Ground Thermal Resistivity km/W | 0.9 | 1 | 1.2 | 1.5 | 2 | 2.5 | 3 |
| De-Rating Factor | 1.06 | 1.04 | 1 | 0.92 | 0.82 | 0.74 | 0.68 |
| Depth of Laying m | 0.80 | 1 | 1.25 | 1.50 | 1.75 | 2 | 2.50 |
| De-Rating Factor | 1 | 0.97 | 0.95 | 0.94 | 0.93 | 0.91 | 0.90 |

DIMENSIONS

| BATT Part No | Cores | Nominal cross sectional area of conductor | Nominal Diameter mm Under armour | Nominal Diameter mm Over Armour | Nominal Diameter mm Overall | Weight |
|--------------|-------|---|----------------------------------|---------------------------------|-----------------------------|--------|
| 56182 | 1 | 70 | 23 | 26.2 | 30.5 | 1540 |
| 56222 | 1 | 95 | 24.7 | 27.9 | 32.8 | 1850 |
| 56387 | 1 | 120 | 26.7 | 29.9 | 33.1 | 2200 |
| 56600 | 1 | 150 | 27.5 | 31.5 | 36 | 2600 |
| 56034 | 1 | 185 | 29.3 | 33.3 | 37.2 | 3000 |
| 56368 | 1 | 240 | 31.6 | 35.6 | 40.8 | 3640 |
| 56229 | 1 | 300 | 34.6 | 38.6 | 42.3 | 4300 |
| 56168 | 1 | 400 | 37 | 41 | 45.2 | 5200 |
| 56329 | 1 | 500 | 40.5 | 45.5 | 49.5 | 6500 |
| 56035 | 1 | 630 | 44.6 | 49.6 | 55.6 | 8080 |
| 56140 | 3 | 25 | - | - | 48.9 | 4300 |
| 56567 | 3 | 35 | 41.6 | 46.6 | 51.1 | 4600 |
| 56568 | 3 | 50 | 44.4 | 49.4 | 51 | 4600 |
| 56570 | 3 | 70 | 48.1 | 53.1 | 56 | 6300 |
| 56569 | 3 | 95 | 52 | 57 | 63.5 | 8200 |
| 56529 | 3 | 120 | 55.6 | 60.6 | 65.4 | 8700 |
| 56538 | 3 | 150 | 58.6 | 63.6 | 68.6 | 9700 |
| 56549 | 3 | 240 | 68.1 | 74.4 | 78.9 | 14300 |
| 56598 | 3 | 300 | 73.5 | 79.8 | 84.7 | 16600 |
| 56150 | 3 | 400 | 79.3 | 84.6 | 92.2 | 20000 |

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

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