



BS5308 Cable Part 2 Type 2 CAM SWA PVC

Applications:

BS5308 PVC insulated armoured instrumentation cable, part 2, type 2
Generally used within industrial process plants and for data & voice transmission services. Also used for the interconnection of electrical equipment and instruments, particularly in and around process plants, where transducer generated signals are transmitted through marshalled circuits to panels, controllers and associated devices

Part 2 cables are common to the chemical and petrochemical industries

Type 2 armoured cables are suitable for burial underground

Conductors:

0.5sqmm & 0.75sqmm class 5 Flexible copper, 1.5sqmm & 2.5sqmm class 2 stranded copper

Insulation:

PVC (Polyvinyl chloride)

Core identification:

Please see colour code link in technical information

Bedding:

PVC (Polyvinyl-Chloride)

Armour/Protection:

SWA (Single wire armour)

Screen:

CAM (Collective aluminium mylar)

Sheath/Jacket:

PVC (Polyvinyl-Chloride)

Colour:

Black or Blue

Voltage:

300/500v

Temperature range:

Operating -40 to +65°C Installation 0 to 50°C

Bending Radius:

6 x overall diameter

Standards:

BS5308 Part 2 ,Insulated cables, instrumentation, PVC



Electrical Characteristics

| Conductor size | 0.5mm ² (16/.2) | 0.75mm ² (24/.2) | 1.00mm ² (1/1.13) | 1.5mm ² (7/0.53) |
|---|----------------------------|-----------------------------|------------------------------|-----------------------------|
| Mutual Capacitance: | | | | |
| a. Pair or adjacent cores | 250 | 250 | 250 | 250 |
| Conductor resistance: Max resistance: Max dc resistance at 20°C – ohms/Km | 39.7 | 26.5 | 18.4 | 12.3 |
| L/R ratio (maximum value) – microH/ohm | 25 | 25 | 25 | 40 |



BS5308 Part 2 Type 2 Collectively Screened and Armoured

| Conductor size (mm) | Nominal dimensions (mm), Weights and Gland sizes | | | | | | | | | |
|--|---|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | No of Pairs | 1 | 2 | 5 | 10 | 15 | 20 | 30 | 50 | |
| 16/0.20 (0.5mm²) | BATT part no Blue | 85365 | 85026 | 85308 | 85235 | - | 85366 | - | - | |
| | BATT part no Black | 85406 | 85368 | 85369 | 75270 | - | 85371 | 85372 | - | |
| | Under Armour | 7 | 7.9 | 13.1 | 17.2 | 19.8 | 22.3 | 26.9 | 33.9 | |
| | Over Armour | 8.8 | 9.7 | 14.9 | 19.7 | 23 | 25.5 | 30.1 | 37.9 | |
| | Overall Diameter | 11.4 | 12.3 | 17.9 | 22.9 | 26.4 | 29.1 | 33.9 | 42.1 | |
| | Weight Kg/KM | 240 | 290 | 510 | 880 | 1200 | 1500 | 1900 | 2900 | |
| | Gland CW /Size | 20s | 20s | 20 | 25 | 25 | 32 | 40 | 50s | |
| | Gland part no | 88591 | 88591 | 88592 | 88593 | 88593 | 88594 | 88893 | 88919 | |
| | 24/0.20 (0.75mm²) Generally to BS5308 | BATT part no Blue | 85130 | 85627 | 85135 | 85136 | - | 85137 | 85218 | 85588 |
| | | BATT part no Black | 85131 | 86448 | 85036 | 85151 | - | 85180 | 85222 | 85432 |
| Under Armour | | 7.3 | 8.3 | 14.3 | 18.7 | 21.4 | 24.5 | 29.5 | 37.4 | |
| Over Armour | | 9.1 | 10.1 | 16.8 | 21.9 | 24.6 | 27.7 | 33.5 | 41.4 | |
| Overall Diameter | | 11.7 | 12.9 | 19.8 | 25.3 | 28.2 | 31.3 | 37.5 | 45.8 | |
| Weight Kg/KM | | 270 | 310 | 710 | 1200 | 1500 | 1700 | 2500 | 3500 | |
| Gland CW/Size | | 20s | 20s | 25 | 32 | 32 | 32 | 40 | 50 | |
| Gland part no | | 88591 | 88591 | 88593 | 88594 | 88594 | 88594 | 88893 | 88894 | |
| 7/0.53 (1.5mm²) | | BATT part no Blue | 85127 | 85275 | 85278 | 85213 | - | 85129 | 85248 | 85588 |
| | | BATT part no Black | 85126 | 85210 | 85266 | 85247 | - | 85128 | 85276 | - |
| | Under Armour | 8.3 | 9.7 | 16.4 | 21.6 | 25.2 | 28.5 | 34.3 | 43.6 | |
| | Over Armour | 10.1 | 11.5 | 18.9 | 24.8 | 28.4 | 31.7 | 38.3 | 48.6 | |
| | Overall Diameter | 12.9 | 14.3 | 22.1 | 28.4 | 32.2 | 35.7 | 42.5 | 53.4 | |
| | Weight Kg/KM | 300 | 390 | 870 | 1500 | 1900 | 2400 | 3300 | 5200 | |
| | Gland CW/Size | 20s | 20s | 25 | 32 | 32 | 40 | 40 | 63s | |
| | Gland part no | 88591 | 88591 | 88593 | 88594 | 88594 | 88893 | 88893 | 88918 | |

BS5308 Part 2 Type 2 Individual and Collective Screen Armoured

| Conductor size (mm) | Nominal dimensions (mm), Weights and Gland sizes | | | | | | | | | |
|--|---|--------------------|-------|-------|-------|-------|-------|-------|------|---|
| | No of Pairs | 1 | 2 | 5 | 10 | 15 | 20 | 30 | 50 | |
| 16/0.20 (0.5mm²) | BATT part no Blue | - | - | - | - | - | - | - | - | |
| | BATT part no Black | - | - | 85592 | - | - | - | - | - | |
| | Under Armour | - | 12 | 15.2 | 21.1 | 24.5 | 27.3 | 32.3 | 41.7 | |
| | Over Armour | - | 13.8 | 17.7 | 24.3 | 27.7 | 30.5 | 36.3 | 46.7 | |
| | Overall Diameter | - | 16.8 | 20.9 | 27.9 | 31.3 | 34.3 | 40.5 | 51.5 | |
| | Weight Kg/KM | - | 450 | 750 | 1300 | 1500 | 1900 | 2700 | 4200 | |
| | Gland CW /Size | - | - | 25 | - | - | - | - | - | |
| | Gland part no | - | - | 88593 | - | - | - | - | - | |
| | 24/0.20 (0.75mm²) Generally to BS5308 | BATT part no Blue | - | 85273 | 85603 | 85269 | - | 85172 | - | - |
| | | BATT part no Black | - | 85577 | 85526 | 85388 | - | 85527 | - | - |
| Under Armour | | - | 12.8 | 16.3 | 22.7 | 26.4 | 29.8 | 35.5 | 45 | |
| Over Armour | | - | 14.6 | 18.8 | 25.9 | 29.6 | 33.8 | 39.5 | 50 | |
| Overall Diameter | | - | 17.6 | 22 | 29.5 | 33.4 | 37.8 | 43.9 | 55 | |
| Weight Kg/KM | | - | 490 | 801 | 1800 | 1900 | 2200 | 3500 | 5000 | |
| Gland CW/Size | | - | 20 | 25 | 32 | - | 50s | - | - | |
| Gland part no | | - | 88592 | 88593 | 88594 | - | 88919 | - | - | |
| 7/0.53 (1.5mm²) | | BATT part no Blue | - | - | - | - | - | - | - | - |
| | | BATT part no Black | - | 85334 | 85335 | 85338 | - | 85339 | - | - |
| | Under Armour | - | 14.7 | 18.8 | 26.5 | 30.8 | 34.4 | 41 | 52.2 | |
| | Over Armour | - | 17.2 | 22 | 29.7 | 34.8 | 38.4 | 46 | 56.7 | |
| | Overall Diameter | - | 20.4 | 25.4 | 33.5 | 38.8 | 42.6 | 50.8 | 62.6 | |
| | Weight Kg/KM | - | 660 | 1000 | 1700 | 2100 | 2800 | 3600 | 5200 | |
| | Gland CW/Size | - | - | 32 | 40 | - | 50s | - | - | |
| | Gland part no | - | - | 88594 | 88893 | - | 88919 | - | - | |