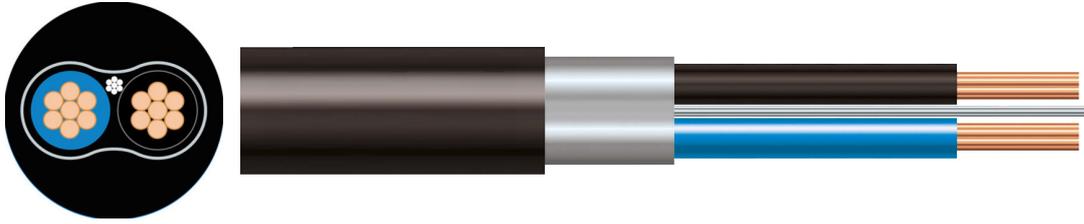


PAS/BS 5308 CAM PART 2 TYPE 1 INSTRUMENTATION CABLE



Instrumentation cables, manufactured to PAS5308 standards, renowned for their reliability in communication and instrumentation applications within process industries. These cables transmit analogue or digital signals from various sensors and transducers and are designed with insulated and sheathed configurations, complying with BS5308 and PAS5308 standards.

Primarily used for indoor installations in industrial process plants and for data and voice transmission services, these cables also serve for interconnecting electrical equipment and instruments, especially in process plants. Widely utilized in the petrochemical industry and other industrial sectors, they come with collective aluminium tape screening or individual and collective aluminium tape screens to prevent electrical interference and crosstalk.

While commonly known as BS5308 cables, they are now manufactured to the replacement standard PAS5308, meeting modern industry standards for safety and performance.

| | |
|------------------------------|----------------------------|
| CONDUCTOR | Plain Copper |
| INSULATION | PVC |
| COLLECTIVE SCREEN | Collective Aluminium Mylar |
| OUTERSHEATH | PVC |
| OUTERSHEATH COLOUR | Black, Blue |
| RATED VOLTAGE | 500V |
| CORE IDENTIFICATION | According to BS5308 part 2 |
| OPERATING TEMPERATURE | 70°C |
| STANDARDS | BS/PAS 5308, EN 60228 |

SPECIFICATION DATA

ELECTRICAL CHARACTERISTICS

| Nominal Cross Sectional Area mm | Mutual Capacitance pF/m Between Pairs or Adjacent Cores | Mutual Capacitance pF/m Between any Core and Screen | Minimum Insulation Resistance at 20°C mohms/km | Maximum L/R Ratio $\mu\text{H}/\text{ohms}$ |
|---------------------------------|---|---|--|---|
| 0.5 | 250 | 450 | >25 | 25 |
| 0.75 | 250 | 450 | >25 | 25 |
| 1 | 250 | 450 | >25 | 25 |
| 1.5 | 250 | 450 | >25 | 40 |
| 2.5 | 250 | 450 | >25 | 65 |

CONDUCTORS

| Nominal Cross Sectional Area mm | Conductor Class | Maximum DC Resistance of Conductor at 20°C ohms/km |
|---------------------------------|-----------------|--|
| 0.5 | 5 | 39 |
| 0.75 | 5 | 36 |
| 1 | 1 | 18.1 |
| 1.5 | 2 | 12.1 |
| 2.5 | 2 | 7.41 |

DIMENSIONS

| BATT Part No | No of Pairs/Triple | Nominal Cross Sectional Area mm | Approx overall diameter mm |
|--------------|--------------------|---------------------------------|----------------------------|
| 85093 | 1 Pair | 0.5 | 6.1 |
| 85066 | 1 Pair | 0.75 | 6.5 |
| 85148 | 1 Pair | 1.5 | 7.4 |
| 86937 | 2 Pair | 0.5 | 6.3 |
| 85076 | 2 Pair | 0.75 | 7.4 |
| 85258 | 2 Pair | 1.5 | 9.7 |
| 85179 | 3 Pair | 0.75 | 10.6 |
| 85202 | 5 Pair | 0.5 | 13.1 |
| 85515 | 5 Pair | 0.75 | 13.1 |
| 85488 | 5 Pair | 1.5 | 16.4 |
| 85606 | 10 Pair | 0.5 | 16 |
| 85393 | 10 Pair | 0.75 | 17.5 |
| 85617 | 10 Pair | 1.5 | 21 |
| 85392 | 20 Pair | 0.75 | 21 |
| 85396 | 30 Pair | 0.75 | 30.1 |

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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