

PAS5308 Part 1 Type 1 CAM LSZH

Flame retardant and a low smoke, halogen free instrumentation cable



Application

PAS5308 cables are designed to carry communication and control signals in a variety of installation types including those found in the petrochemical industry. The signals can be of analogue, data or voice type and from a variety of transducers such as pressure, proximity or microphone. Part 1 Type 1 cables are generally designed for indoor use and in environments where mechanical protection is not required

Construction

| | |
|----------------------|--|
| Conductor | : Class 1 solid, Class 2 stranded or Class 5 flexible copper conductor acc. to BS EN 60228 |
| Pairing | : Two insulated conductors uniformly twisted together. |
| Insulation | : XLPE, cross linked polyethylene Type 03 (BS6234) |
| Binding tape | : PET (Polyester Tape) |
| Shielding | : AL/PET (Aluminium/Polyester Tape) |
| Drain wire | : Tinned copper |
| Sheath | : LSZH (Low Smoke Zero Halogen) Type LTS3 (BS 7655) |
| Rated voltage | : 300/500 V |

Outer sheath colours

Available colours : Blue or Black

Installation recommendations

| | |
|-------------------------------------|-------------------|
| Minimum Bending Radius Fixed | : 12xD |
| Operation Temp. Rating Fixed | : -30 °C to 90 °C |

Standards applied

| | |
|-------------|----------------------|
| BS 5308 | BS EN 50363 |
| BS EN 60228 | BS EN/IEC 60332-1 |
| BS 6234 | BS EN/IEC 60332-3-24 |

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Range and Dimensions

| Article Code | Number of Paires (P) / Triple (T) | Nominal Cross Sectional Area | Nominal Overall Diameter |
|------------------|-----------------------------------|------------------------------|--------------------------|
| | | mm ² | mm ² |
| P50C01P0.5A00BK2 | 1P | 0.5 | 7 |
| P50C01P.75A00BK2 | 1P | 0.75 | 7.4 |
| P50C01P1.0A00BK2 | 1P | 1 | 7.4 |
| P50C01P1.5A00BK2 | 1P | 1.5 | 8.3 |
| P50C01P2.5A00BK2 | 1P | 2.5 | 9.1 |
| P50C01T0.5A00BK2 | 1T | 0.5 | 7.3 |
| P50C01T.75A00BK2 | 1T | 0.75 | 7.7 |
| P50C01T1.0A00BK2 | 1T | 1 | 7.7 |
| P50C01T1.5A00BK2 | 1T | 1.5 | 8.9 |
| P50C01T0.5A00BK2 | 1T | 2.5 | 9.7 |
| P50C01Q0.5A00BK2 | 2P (Q) | 0.5 | 7.9 |
| P50C01Q.75A00BK2 | 2P (Q) | 0.75 | 8.4 |
| P50C02P1.0A00BK2 | 2P | 1 | 8.4 |
| P50C02P1.5A00BK2 | 2P | 1.5 | 9.7 |
| P50C02P2.5A00BK2 | 2P | 2.5 | 10.7 |
| P50C05P0.5A00BK2 | 5P | 0.5 | 13.1 |
| P50C05P.75A00BK2 | 5P | 0.75 | 13.8 |
| P50C05P1.0A00BK2 | 5P | 1 | 14.2 |
| P50C05P1.5A00BK2 | 5P | 1.5 | 16.4 |
| P50C05P2.5A00BK2 | 5P | 2.5 | 18.2 |
| P50C10P0.5A00BK2 | 10P | 0.5 | 17.2 |
| P50C10P.75A00BK2 | 10P | 0.75 | 18.9 |
| P50C10P1.0A00BK2 | 10P | 1 | 18.4 |
| P50C10P1.5A00BK2 | 10P | 1.5 | 21.6 |
| P50C10P2.5A00BK2 | 10P | 2.5 | 25.1 |
| P50C15P0.5A00BK2 | 15P | 0.5 | 19.8 |
| P50C15P.75A00BK2 | 15P | 0.75 | 21.9 |
| P50C15P1.0A00BK2 | 15P | 1 | 21.3 |
| P50C15P1.5A00BK2 | 15P | 1.5 | 25.4 |
| P50C15P2.5A00BK2 | 15P | 2.5 | 29.2 |
| P50C20P0.5A00BK2 | 20P | 0.5 | 22.3 |
| P50C20P.75A00BK2 | 20P | 0.75 | 24.6 |
| P50C20P1.0A00BK2 | 20P | 1 | 24.4 |
| P50C20P1.5A00BK2 | 20P | 1.5 | 28.5 |
| P50C20P2.5A00BK2 | 20P | 2.5 | 39.8 |

P = Pairs T= Triple Q = Quad

Conductors

| Nominal Cross Sectional Area mm ² | Conductor Class | Maximum DC Resistance of Conductor at 20 °C |
|---|-----------------|---|
| | | Ohms/km |
| 0.5 | 5 | 39 |
| 0.75 | 5 | 26 |
| 1 | 1 | 18.1 |
| 1.5 | 2 | 12.1 |
| 2.5 | 2 | 7.41 |

Electrical characteristics

| Nominal Cross Sectional Area mm ² | Maximum Capacitance pF/m | | Minimum Insulation Resistance at 20 °C Mohms/km | Maximum L/R Ratio μH/ohms |
|---|------------------------------------|---|--|------------------------------|
| | Cables with collective screen only | 1 Pair, 2 Pairs, 1 Triple collectively screened | | |
| 0.5 | 75 | 115 | >5 | 25 |
| 0.75 | 75 | 115 | >5 | 25 |
| 1 | 75 | 115 | >5 | 25 |
| 1.5 | 85 | 120 | >5 | 40 |
| 2.5 | 85 | 120 | >5 | 65 |

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Core Colours

| Pair No. | A Wire | B Wire |
|----------|--------|-----------|
| 1 | Black | Blue |
| 2 | Black | Green |
| 3 | Blue | Green |
| 4 | Black | Brown |
| 5 | Blue | Brown |
| 6 | Green | Brown |
| 7 | Black | White |
| 8 | Blue | White |
| 9 | Green | White |
| 10 | Brown | White |
| 11 | Black | Red |
| 12 | Blue | Red |
| 13 | Green | Red |
| 14 | Brown | Red |
| 15 | White | Red |
| 16 | Black | Orange |
| 17 | Blue | Orange |
| 18 | Green | Orange |
| 19 | Brown | Orange |
| 20 | White | Orange |
| 21 | Red | Orange |
| 22 | Black | Yellow |
| 23 | Blue | Yellow |
| 24 | Green | Yellow |
| 25 | Brown | Yellow |
| 26 | White | Yellow |
| 27 | Red | Yellow |
| 28 | Orange | Yellow |
| 29 | Black | Grey |
| 30 | Blue | Grey |
| 31 | Green | Grey |
| 32 | Brown | Grey |
| 33 | White | Grey |
| 34 | Red | Grey |
| 35 | Orange | Grey |
| 36 | Yellow | Grey |
| 37 | Black | Grey |
| 38 | Blue | Grey |
| 39 | Green | Violet |
| 40 | Brown | Violet |
| 41 | White | Violet |
| 42 | Red | Violet |
| 43 | Orange | Violet |
| 44 | Yellow | Violet |
| 45 | Grey | Violet |
| 46 | Black | Turquoise |
| 47 | Blue | Turquoise |
| 48 | Green | Turquoise |
| 49 | Brown | Turquoise |
| 50 | White | Turquoise |

NOTICE

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