

PAS 5308 Part 1 Type 2 (ex BS5308)

Multipair PE Insulated, Instrumentation Cable

- Collective Screen, Armoured 300/500 V
- Individual and Collective Screen, Armoured 300/500 V

Applications

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plant (e.g. petrochemical industry etc.). Suitable for direct buried application.

Technical Data

Maximum conductor d.c. resistance:

Conductor size	Ohm/km at +20°C
1/0.80 mm (0.50 sqmm)	37.2
16/0.20 mm (0.50 sqmm)	40.0
24/0.20 mm (0.75 sqmm)	26.8
1/1.13 mm (1.00 sqmm)	18.6
7/0.53 mm (1.50 sqmm)	12.5
7/0.67 mm (2.50 sqmm)	7.7

Minimum insulation resistance:

Individual conductors >5 GOhm x km at +20°C

Maximum Mutual Capacitance:

Cables with Collective Screen Only (no 1 pair, 2 pairs, 1 triple)

0.50 sqmm, 0.75 sqmm, 1.00 sqmm: 75 pF/m
1.50 sqmm, 2.50 sqmm: 85 pF/m

1 pair, 2 pairs, 1 triple collectively screened:

0.50 sqmm, 0.75 sqmm, 1.00 sqmm: 115 pF/m
1.50 sqmm, 2.50 sqmm: 120 pF/m

Cables with individually screened pairs:

0.50 sqmm, 0.75 sqmm, 1.00 sqmm: 115 pF/m
1.50 sqmm, 2.50 sqmm: 120 pF/m

Maximum L/R Ratio:

0.50 sqmm, 0.75 sqmm, 1.00 sqmm: 25 µH/Ω
1.50 sqmm: 40 µH/Ω
2.50 sqmm: 65 µH/Ω

Voltage Rating:

300/500 V

Operating Temperature:

-40° C / +90° C

Installation Temperature:

MAX +50° C

Construction

- **Conductors:** Solid (Class 1), Stranded (Class 2) or Flexible (Class 5) copper conductor to BS EN 60228

- **Insulation:** Polythene type 03 to BS6234

- 100 mm maximum pair length (min. 10 twists per metre)

- **Binder Tape:** Polyester tape 50% overlap

- **Individual and collective Screen**

or
- **Collective Screen**

Polyester tape 50% overlap
Aluminium/Polyester tape, metallic side down, in contact with Tinned Copper drain wire

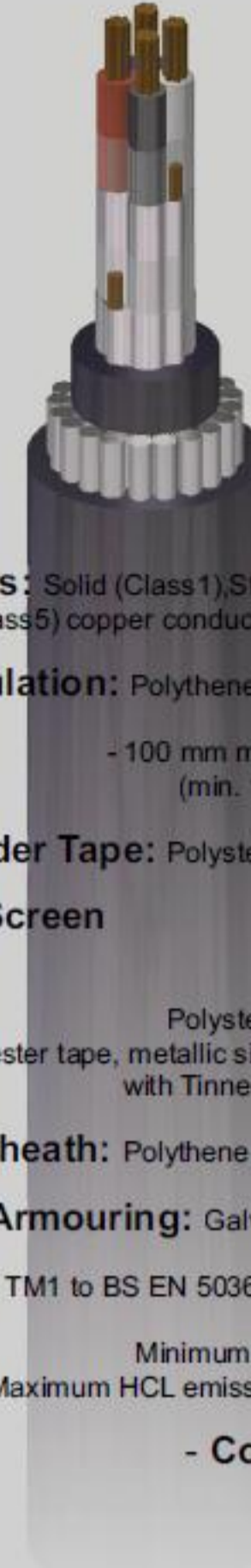
- **Inner Sheath:** Polythene type 03 to BS 6234

- **Armouring:** Galvanized Steel Wires

- **Outer Sheath:** PVC Sheat type TM1 to BS EN 50363 with the following characteristics:

Minimum oxygen index: 30%
Maximum HCL emission @ 800° C: 15%

- **Color:** Black or Blue



ramcro
SPECIAL CABLES
PAS5308

PE / CAM / PE / SWA / PVC
PE / IAM / CAM / PE / SWA / PVC

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Standards References

PAS 5308 Part 1 Type 2
BS EN 60228
BS 6234
BS 50363
IEC 60332-1
IEC 60332-3-24

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Ramcro Part No	No. of Pairs/Triple	Cond. mm ²	Nom. O/D mm
Collective screened			
MAS0150ADADX-OIL	1P	0.50	11.4
MAS0250ADADX-OIL	2P (Q)	0.50	12.3
MAS0550ADADX-OIL	5P	0.50	17.9
MAS1050ADADX-OIL	10P	0.50	22.9
MAS1550ADADX-OIL	15P	0.50	26.4
MAS2050ADADX-OIL	20P	0.50	29.1
MAS3750ADADX-OIL	1T	0.50	11.7
MAS0175ADADX-OIL	1P	0.75	11.8
MAS0275ADADX-OIL	2P (Q)	0.75	13.0
MAS0575ADADX-OIL	5P	0.75	19.3
MAS1075ADADX-OIL	10P	0.75	25.5
MAS1575ADADX-OIL	15P	0.75	28.7
MAS2075ADADX-OIL	20P	0.75	31.6
MAS3775ADADX-OIL	1T	0.75	12.1
MAS0110ADADX-OIL	1P	1.00	11.8
MAS0210ADADX-OIL	2P (Q)	1.00	13.0
MAS0510ADADX-OIL	5P	1.00	19.7
MAS1010ADADX-OIL	10P	1.00	24.3
MAS1510ADADX-OIL	15P	1.00	28.1
MAS2010ADADX-OIL	20P	1.00	31.2
MAS3710ADADX-OIL	1T	1.00	12.3
MAS0115ADADX-OIL	1P	1.50	12.9
MAS0215ADADX-OIL	2P (Q)	1.50	14.3
MAS0515ADADX-OIL	5P	1.50	22.1
MAS1015ADADX-OIL	10P	1.50	28.4
MAS1515ADADX-OIL	15P	1.50	32.2
MAS2015ADADX-OIL	20P	1.50	35.7
MAS3715ADADX-OIL	1T	1.50	13.5
MAS0125ADADX-OIL	1P	2.50	13.7
MAS0225ADADX-OIL	2P (Q)	2.50	15.3
MAS0525ADADX-OIL	5P	2.50	24.1
MAS1025ADADX-OIL	10P	2.50	32.1
MAS1525ADADX-OIL	15P	2.50	36.4
MAS2025ADADX-OIL	20P	2.50	41.0
MAS3725ADADX-OIL	1T	2.50	14.3

Ramcro Part No	No. of Pairs/Triple	Cond. mm ²	Nom. O/D mm
Individual & Collective screened			
MAC0250ADADX-OIL	2P	0.50	15.3
MAC0350ADADX-OIL	3P	0.50	16.4
MAC0550ADADX-OIL	5P	0.50	19.1
MAC1050ADADX-OIL	10P	0.50	25.6
MAC1550ADADX-OIL	15P	0.50	28.7
MAC2050ADADX-OIL	20P	0.50	31.6
MAC3050ADADX-OIL	30P	0.50	36.4
MAC0275ADADX-OIL	2P	0.75	16.0
MAC0375ADADX-OIL	3P	0.75	17.1
MAC0575ADADX-OIL	5P	0.75	20.0
MAC1075ADADX-OIL	10P	0.75	27.0
MAC1575ADADX-OIL	15P	0.75	30.6
MAC2075ADADX-OIL	20P	0.75	33.8
MAC3075ADADX-OIL	30P	0.75	39.7
MAC0210ADADX-OIL	2P	1.00	15.9
MAC0310ADADX-OIL	3P	1.00	17.0
MAC0510ADADX-OIL	5P	1.00	20.0
MAC1010ADADX-OIL	10P	1.00	27.0
MAC1510ADADX-OIL	15P	1.00	30.5
MAC2010ADADX-OIL	20P	1.00	33.7
MAC3010ADADX-OIL	30P	1.00	39.6
MAC0215ADADX-OIL	2P	1.50	18.6
MAC0315ADADX-OIL	3P	1.50	19.7
MAC0515ADADX-OIL	5P	1.50	22.5
MAC1015ADADX-OIL	10P	1.50	30.7
MAC1515ADADX-OIL	15P	1.50	34.6
MAC2015ADADX-OIL	20P	1.50	39.3
MAC3015ADADX-OIL	30P	1.50	45.2
MAC0225ADADX-OIL	2P	2.50	20.0
MAC0325ADADX-OIL	3P	2.50	21.1
MAC0525ADADX-OIL	5P	2.50	25.5
MAC1025ADADX-OIL	10P	2.50	33.9
MAC1525ADADX-OIL	15P	2.50	39.3
MAC2025ADADX-OIL	20P	2.50	43.7
MAC3025ADADX-OIL	30P	2.50	51.6