

# PAS 5308 Part 1 Type 2 (ex BS5308)

Multipair Silicon Rubber 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. READY FOR FIRE RESISTANT INSTALLATIONS

## 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 >25 MOhm x km at +20°C

### Maximum Mutual Capacitance:

Between pairs or adjacent cores: 250 pF/m  
Between any core and screen: 450 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 / + 180° 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:** Silicon Rubber Ceramic Type

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

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

- Individual and collective Screen

or

- Collective Screen

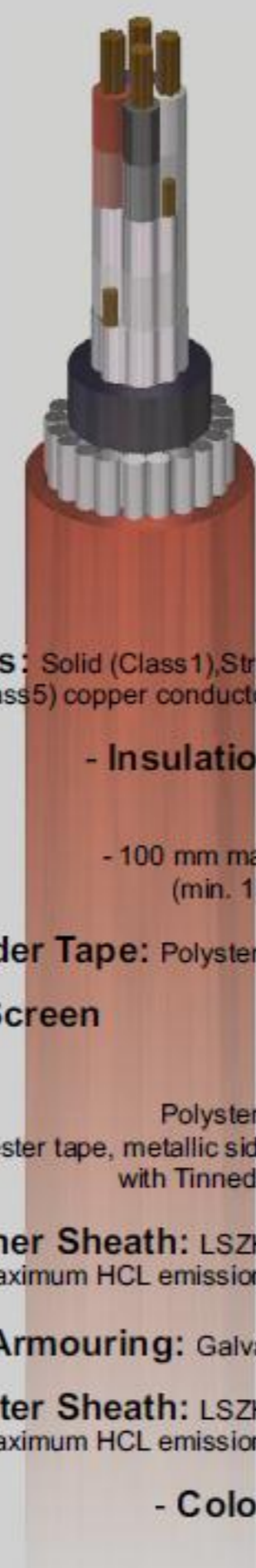
Polyster tape 50% overlap Aluminium/Polyester tape, metallic side down, in contact with Tinned Copper drain wire

- **Inner Sheath:** LSZH Sheat type LTS3 Maximum HCL emission @ 800° C: -0.5%

- **Armouring:** Galvanized Steel Wires

- **Outer Sheath:** LSZH Sheat type LTS3 Maximum HCL emission @ 800° C: -0.5%

- **Color:** Red and Black



ramcro SPECIAL CABLES PAS5308

SIL / CAM / LSZH / SWA / LSZH  
SIL / IAM / CAM / LSZH / SWA / LSZH

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Ramcro Part No	No. of Pairs/Triple	Cond. mm <sup>2</sup>	Nom. O/D mm
Collective screened			
MAS0150AFESX-OIL	1P	0.50	10.9
MAS0250AFESX-OIL	2P (Q)	0.50	11.8
MAS0550AFESX-OIL	5P	0.50	17.2
MAS1050AFESX-OIL	10P	0.50	23.2
MAS1550AFESX-OIL	15P	0.50	27.2
MAS2050AFESX-OIL	20P	0.50	29.9
MAS3750AFESX-OIL	1T	0.50	11.3
MAS0175AFESX-OIL	1P	0.75	11.4
MAS0275AFESX-OIL	2P (Q)	0.75	12.6
MAS0575AFESX-OIL	5P	0.75	18.3
MAS1075AFESX-OIL	10P	0.75	26.2
MAS1575AFESX-OIL	15P	0.75	29.2
MAS2075AFESX-OIL	20P	0.75	33.0
MAS3775AFESX-OIL	1T	0.75	11.8
MAS0110AFESX-OIL	1P	1.00	11.3
MAS0210AFESX-OIL	2P (Q)	1.00	12.3
MAS0510AFESX-OIL	5P	1.00	18.1
MAS1010AFESX-OIL	10P	1.00	25.9
MAS1510AFESX-OIL	15P	1.00	28.9
MAS2010AFESX-OIL	20P	1.00	31.5
MAS3710AFESX-OIL	1T	1.00	11.7
MAS0115AFESX-OIL	1P	1.50	12.3
MAS0215AFESX-OIL	2P (Q)	1.50	13.7
MAS0515AFESX-OIL	5P	1.50	21.1
MAS1015AFESX-OIL	10P	1.50	29.3
MAS1515AFESX-OIL	15P	1.50	33.6
MAS2015AFESX-OIL	20P	1.50	37.0
MAS3715AFESX-OIL	1T	1.50	13.0
MAS0125AFESX-OIL	1P	2.50	13.3
MAS0225AFESX-OIL	2P (Q)	2.50	14.7
MAS0525AFESX-OIL	5P	2.50	23.2
MAS1025AFESX-OIL	10P	2.50	31.8
MAS1525AFESX-OIL	15P	2.50	36.8
MAS2025AFESX-OIL	20P	2.50	40.9
MAS3725AFESX-OIL	1T	2.50	13.8

Ramcro Part No	No. of Pairs/Triple	Cond. mm <sup>2</sup>	Nom. O/D mm
Individual & Collective screened			
MAC0250AFESX-OIL	2P	0.50	14.6
MAC0350AFESX-OIL	3P	0.50	15.4
MAC0550AFESX-OIL	5P	0.50	18.2
MAC1050AFESX-OIL	10P	0.50	26.0
MAC1550AFESX-OIL	15P	0.50	29.1
MAC2050AFESX-OIL	20P	0.50	31.8
MAC3050AFESX-OIL	30P	0.50	37.2
MAC0275AFESX-OIL	2P	0.75	15.8
MAC0375AFESX-OIL	3P	0.75	16.9
MAC0575AFESX-OIL	5P	0.75	20.1
MAC1075AFESX-OIL	10P	0.75	27.7
MAC1575AFESX-OIL	15P	0.75	31.0
MAC2075AFESX-OIL	20P	0.75	35.2
MAC3075AFESX-OIL	30P	0.75	40.3
MAC0210AFESX-OIL	2P	1.00	15.4
MAC0310AFESX-OIL	3P	1.00	16.7
MAC0510AFESX-OIL	5P	1.00	19.9
MAC1010AFESX-OIL	10P	1.00	27.4
MAC1510AFESX-OIL	15P	1.00	30.6
MAC2010AFESX-OIL	20P	1.00	34.8
MAC3010AFESX-OIL	30P	1.00	39.7
MAC0215AFESX-OIL	2P	1.50	17.7
MAC0315AFESX-OIL	3P	1.50	18.5
MAC0515AFESX-OIL	5P	1.50	22.6
MAC1015AFESX-OIL	10P	1.50	31.0
MAC1515AFESX-OIL	15P	1.50	35.8
MAC2015AFESX-OIL	20P	1.50	39.7
MAC3015AFESX-OIL	30P	1.50	45.2
MAC0225AFESX-OIL	2P	2.50	19.9
MAC0325AFESX-OIL	3P	2.50	20.8
MAC0525AFESX-OIL	5P	2.50	25.9
MAC1025AFESX-OIL	10P	2.50	34.9
MAC1525AFESX-OIL	15P	2.50	39.2
MAC2025AFESX-OIL	20P	2.50	43.4
MAC3025AFESX-OIL	30P	2.50	50.6

## Standards References

- PAS 5308 Part 1 Type 2
- BS EN 60228
- BS 6234
- BS 50363
- IEC 60331-21
- IEC 60332-1
- IEC 60332-3-24