

PAS 5308



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PAS 5308 Part 1 Type 3 (ex BS5308)

Multipair Silicon Rubber Insulated, Instrumentation Cable
- Collective Screen, Lead Covered and Armoured 300/500 V
- Individual and Collective Screen, Lead Covered and 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 (Class1), Stranded (Class 2) or Flexible (Class5) 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**
Polyester tape 50% overlap Aluminium/Polyester tape, metallic side down, in contact with Tinned Copper drain wire
- **Bedding:** LSZH Sheat type LTS3 Maximum HCL emission @ 800° C: -0.5%
- **LEAD or Polyamide Cover**
- **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



20

Standards References

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

Ramcro Part No	No. of Pairs/Triple	Cond. mm ²	Nom. O/D mm
Collective screened			
MAS0150AFESX-OILLC	1P	0.50	14.7
MAS0250AFESX-OILLC	2P (Q)	0.50	15.8
MAS0550AFESX-OILLC	5P	0.50	23.1
MAS1050AFESX-OILLC	10P	0.50	29.7
MAS1550AFESX-OILLC	15P	0.50	34.3
MAS2050AFESX-OILLC	20P	0.50	37.5
MAS3750AFESX-OILLC	1T	0.50	15.3
MAS0175AFESX-OILLC	1P	0.75	15.4
MAS0275AFESX-OILLC	2P (Q)	0.75	16.6
MAS0575AFESX-OILLC	5P	0.75	24.2
MAS1075AFESX-OILLC	10P	0.75	33.0
MAS1575AFESX-OILLC	15P	0.75	36.8
MAS2075AFESX-OILLC	20P	0.75	40.1
MAS3775AFESX-OILLC	1T	0.75	15.8
MAS0110AFESX-OILLC	1P	1.00	15.3
MAS0210AFESX-OILLC	2P (Q)	1.00	16.3
MAS0510AFESX-OILLC	5P	1.00	24.0
MAS1010AFESX-OILLC	10P	1.00	31.7
MAS1510AFESX-OILLC	15P	1.00	36.4
MAS2010AFESX-OILLC	20P	1.00	39.7
MAS3710AFESX-OILLC	1T	1.00	15.7
MAS0115AFESX-OILLC	1P	1.50	16.3
MAS0215AFESX-OILLC	2P (Q)	1.50	17.7
MAS0515AFESX-OILLC	5P	1.50	27.3
MAS1015AFESX-OILLC	10P	1.50	36.9
MAS1515AFESX-OILLC	15P	1.50	40.8
MAS2015AFESX-OILLC	20P	1.50	44.4
MAS3715AFESX-OILLC	1T	1.50	17.0
MAS0125AFESX-OILLC	1P	2.50	17.3
MAS0225AFESX-OILLC	2P (Q)	2.50	18.7
MAS0525AFESX-OILLC	5P	2.50	29.7
MAS1025AFESX-OILLC	10P	2.50	40.0
MAS1525AFESX-OILLC	15P	2.50	44.2
MAS2025AFESX-OILLC	20P	2.50	49.3
MAS3725AFESX-OILLC	1T	2.50	17.8

Ramcro Part No	No. of Pairs/Triple	Cond. mm ²	Nom. O/D mm
Individual & Collective screened			
MAC0250AFESX-OILLC	2P	0.50	18.6
MAC0350AFESX-OILLC	3P	0.50	20.0
MAC0550AFESX-OILLC	5P	0.50	23.4
MAC1050AFESX-OILLC	10P	0.50	30.8
MAC1550AFESX-OILLC	15P	0.50	35.5
MAC2050AFESX-OILLC	20P	0.50	38.2
MAC3050AFESX-OILLC	30P	0.50	43.0
MAC0275AFESX-OILLC	2P	0.75	20.8
MAC0375AFESX-OILLC	3P	0.75	21.9
MAC0575AFESX-OILLC	5P	0.75	24.5
MAC1075AFESX-OILLC	10P	0.75	33.5
MAC1575AFESX-OILLC	15P	0.75	37.4
MAC2075AFESX-OILLC	20P	0.75	40.8
MAC3075AFESX-OILLC	30P	0.75	46.7
MAC0210AFESX-OILLC	2P	1.00	20.1
MAC0310AFESX-OILLC	3P	1.00	21.7
MAC0510AFESX-OILLC	5P	1.00	24.3
MAC1010AFESX-OILLC	10P	1.00	33.2
MAC1510AFESX-OILLC	15P	1.00	37.0
MAC2010AFESX-OILLC	20P	1.00	40.4
MAC3010AFESX-OILLC	30P	1.00	45.3
MAC0215AFESX-OILLC	2P	1.50	23.0
MAC0315AFESX-OILLC	3P	1.50	23.8
MAC0515AFESX-OILLC	5P	1.50	27.8
MAC1015AFESX-OILLC	10P	1.50	37.4
MAC1515AFESX-OILLC	15P	1.50	41.4
MAC2015AFESX-OILLC	20P	1.50	45.3
MAC3015AFESX-OILLC	30P	1.50	52.2
MAC0225AFESX-OILLC	2P	2.50	24.3
MAC0325AFESX-OILLC	3P	2.50	26.2
MAC0525AFESX-OILLC	5P	2.50	30.7
MAC1025AFESX-OILLC	10P	2.50	40.5
MAC1525AFESX-OILLC	15P	2.50	44.8
MAC2025AFESX-OILLC	20P	2.50	50.2
MAC3025AFESX-OILLC	30P	2.50	57.4