

PAS 5308

RAMCRO SPECIAL CABLES

PAS 5308 Part 2 Type 3 (ex BS5308)

Multipair PVC 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.

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 / + 80° C

Installation Temperature:

MAX + 50° C

Construction

- **Conductors:** Solid (Class1), Stranded (Class 2) or Flexible (Class5) copper conductor to BS EN 60228
- **Insulation:** PVC T11 to BS EN 50363-3
 - 100 mm maximum pair length (min. 10 twists per metre)
- **Binder Tape:** Polyester tape 50% overlap
- **Individual and collective Screen or Collective Screen**
 - Aluminium/Polyester tape, metallic side down, in contact with Tinned Copper drain wire
- **Bedding:** Polythene type 03 to BS 6234
- **LEAD or Polyamide Cover**
- **Inner Sheath:** PVC Sheat type TM1 to BS EN 50363
- **Armouring:** Galvanized Steel Wire
- **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

PVC / CAM / PVC / LC / PVC / SWA / PVC
 PVC / IAM / CAM / PVC / LC / PVC / SWA / PVC

Ramcro Part No	No. of Pairs/Triple	Cond. mm ²	Nom. O/D mm
Collective screened			
MAS0150ADAAX-OILLC	1P	0.50	15.4
MAS0250ADAAX-OILLC	2P (Q)	0.50	16.3
MAS0550ADAAX-OILLC	5P	0.50	22.6
MAS1050ADAAX-OILLC	10P	0.50	28.4
MAS1550ADAAX-OILLC	15P	0.50	31.2
MAS2050ADAAX-OILLC	20P	0.50	33.9
MAS3750ADAAX-OILLC	1T	0.50	16.0
MAS0175ADAAX-OILLC	1P	0.75	15.6
MAS0275ADAAX-OILLC	2P (Q)	0.75	16.8
MAS0575ADAAX-OILLC	5P	0.75	24.8
MAS1075ADAAX-OILLC	10P	0.75	29.4
MAS1575ADAAX-OILLC	15P	0.75	32.7
MAS2075ADAAX-OILLC	20P	0.75	37.4
MAS3775ADAAX-OILLC	1T	0.75	16.7
MAS0110ADAAX-OILLC	1P	1.00	15.8
MAS0210ADAAX-OILLC	2P (Q)	1.00	17.0
MAS0510ADAAX-OILLC	5P	1.00	25.0
MAS1010ADAAX-OILLC	10P	1.00	29.6
MAS1510ADAAX-OILLC	15P	1.00	32.9
MAS2010ADAAX-OILLC	20P	1.00	37.6
MAS3710ADAAX-OILLC	1T	1.00	16.4
MAS0115ADAAX-OILLC	1P	1.50	16.9
MAS0215ADAAX-OILLC	2P (Q)	1.50	19.0
MAS0515ADAAX-OILLC	5P	1.50	27.4
MAS1015ADAAX-OILLC	10P	1.50	33.2
MAS1515ADAAX-OILLC	15P	1.50	38.4
MAS2015ADAAX-OILLC	20P	1.50	42.1
MAS3715ADAAX-OILLC	1T	1.50	
MAS0125ADAAX-OILLC	1P	2.50	18.4
MAS0225ADAAX-OILLC	2P (Q)	2.50	20.0
MAS0525ADAAX-OILLC	5P	2.50	29.4
MAS1025ADAAX-OILLC	10P	2.50	38.3
MAS1525ADAAX-OILLC	15P	2.50	43.0
MAS2025ADAAX-OILLC	20P	2.50	48.6
MAS3725ADAAX-OILLC	1T	2.50	19.2

Ramcro Part No	No. of Pairs/Triple	Cond. mm ²	Nom. O/D mm
Individual & Collective screened			
MAC0250ADAAX-OILLC	2P	0.50	20.0
MAC0350ADAAX-OILLC	3P	0.50	21.1
MAC0550ADAAX-OILLC	5P	0.50	23.1
MAC1050ADAAX-OILLC	10P	0.50	30.2
MAC1550ADAAX-OILLC	15P	0.50	33.5
MAC2050ADAAX-OILLC	20P	0.50	37.8
MAC3050ADAAX-OILLC	30P	0.50	43.0
MAC0275ADAAX-OILLC	2P	0.75	20.6
MAC0375ADAAX-OILLC	3P	0.75	22.1
MAC0575ADAAX-OILLC	5P	0.75	25.1
MAC1075ADAAX-OILLC	10P	0.75	31.8
MAC1575ADAAX-OILLC	15P	0.75	36.7
MAC2075ADAAX-OILLC	20P	0.75	40.1
MAC3075ADAAX-OILLC	30P	0.75	45.2
MAC0210ADAAX-OILLC	2P	1.00	20.8
MAC0310ADAAX-OILLC	3P	1.00	23.1
MAC0510ADAAX-OILLC	5P	1.00	25.3
MAC1010ADAAX-OILLC	10P	1.00	32.0
MAC1510ADAAX-OILLC	15P	1.00	36.9
MAC2010ADAAX-OILLC	20P	1.00	40.3
MAC3010ADAAX-OILLC	30P	1.00	45.4
MAC0215ADAAX-OILLC	2P	1.50	22.6
MAC0315ADAAX-OILLC	3P	1.50	25.6
MAC0515ADAAX-OILLC	5P	1.50	28.0
MAC1015ADAAX-OILLC	10P	1.50	37.1
MAC1515ADAAX-OILLC	15P	1.50	41.2
MAC2015ADAAX-OILLC	20P	1.50	45.1
MAC3015ADAAX-OILLC	30P	1.50	53.0
MAC0225ADAAX-OILLC	2P	2.50	25.3
MAC0325ADAAX-OILLC	3P	2.50	30.2
MAC0525ADAAX-OILLC	5P	2.50	40.5
MAC1025ADAAX-OILLC	10P	2.50	45.1
MAC1525ADAAX-OILLC	15P	2.50	51.3
MAC2025ADAAX-OILLC	20P	2.50	58.6
MAC3025ADAAX-OILLC	30P	2.50	72.2

Standards References

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

www.ramcro.it



Phoenix

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