

Ex Industries

Instrumentation cables to BS5308 Part 1 Type 1 Unarmored

Individual and Collective Screen, Unarmored 300/500V

APPLICATION

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants (e.g. petrochemical industry etc).

Specifications

- In accordance with BS5308 Part 1.
- **Conductor:** Solid (Class 1), stranded (Class 2) or flexible (Class 5) copper conductors to BS6360
- **Insulation:** Polythene insulation Type 03 to BS6234
- **Pair Identification:** Pairs will be numbered, each pair containing 1 black and 1 blue core
- **Individual Screen:** Tinned copper drain wire under and in contact with aluminum/p.e.t.p. laminated tape applied metallic side down
- **Screen Isolation Tape:** Numbered p.e.t.p. tape applied over each individually screened pair
- **Binder Tape:** p.e.t.p. tape 50% overlap
- **Collective Screen:** Tinned copper drain wire(s) under and in contact with aluminum/p.e.t.p. laminated tape applied metallic side down
- **Outer Sheath:** PVC out sheath Type TM.1 to BS7355. In addition, out sheath displays the following characteristics;
- Min. oxygen index 30%
- Max. HCL Emissions @ 800 degrees C 15%
- Flame retardant to BS4066 / IEC60332 Part 3 Category C (NMV1.5)
- **Voltage Rating:** 300/500V
- **Temp Rating:** 65 degrees C max conductor operating temperature

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Nom Cond. Area mmsq	Nom Cond. Stranding #/mm	No. of Pairs / Triples	Dia. Over Inner Sheath		Min OD mm	Max OD mm	Approx Weight
			Min	Max			
1.5	7/0 .53	1P	8.7	9.8	12.7	14.3	297
1.5	7/0 .53	2P	13.4	14.8	17.8	19.7	505
1.5	7/0 .53	3P	14.4	16	18.8	20.8	596
1.5	7/0 .53	5P	17.5	19.1	22.2	24.6	826
1.5	7/0 .53	7P	19	23.7	23.7	26.2	929
1.5	7/0 .53	10P	24.2	26.4	29.5	32.6	1343
1.5	7/0 .53	12P	25	27.2	31	34.2	1510
1.5	7/0 .53	20P	31.5	34.2	38.1	41.7	2287
1.5	7/0 .53	1TR	9.2	10.3	13.2	14.8	304
1.5	7/0 .53	3TR	17.9	19.6	22.4	24.9	760
1.5	7/0 .53	7TR	24.1	26.3	29.0	32	1262
1.5	7/0 .53	12TR	32.6	35.4	38.9	42.5	2148

Notes:

All dimensions must be verified at time of ordering.

Other sizes available upon request.

Minimum quantities may be required.

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www.exindustries.com