

# *Ex Industries*

## **Instrumentation cables to BS5308 Part 2 Type 2 Armored**

Individual and Collective Screen, armored 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). Suitable for direct buried applications.

### **Specifications**

- In accordance with BS5308 Part 2 Type 2.
- **Conductor:** Stranded (Class 2) or flexible (Class 5) copper conductors to BS6360
- **Insulation:** PVC Insulation Type TI.1 to BS7655
- **Pair Identification:** See color core data sheet
- **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.
- PVC bedding type TM.1 to BS7655
- **Armor:** Mild galvanized steel wires to BS EN10257-1.
- **Outer Sheath:** PVC out sheath Type TM.1 to BS7655. 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	5P	17.5	19.1	22.2	24.6	826
1.5	7/0 .53	10P	24.2	26.4	29.5	32.6	1343
1.5	7/0 .53	20P	31.5	34.2	38.1	41.7	2287

**Notes:**

All dimensions must be verified at time of ordering.

Other sizes available upon request.

Minimum quantities may be required.