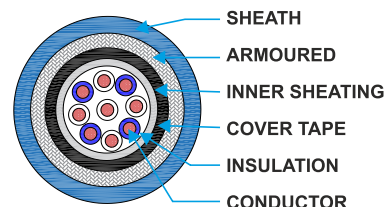




Instrumentation Cable

Multi Pair Overall-Shield Armoured



Application

Instrumentation cables are used in diverse applications for control, monitoring, communication, data and voice transmissions signals, and process control circuit in industrial applications such as oil, gas, petrochemical industry, fertilizers, cement, steel plant etc.

Characteristics

- Signal protection between pairs.
- Good electromagnetic protection from external influences.
- Excellent electrical, thermal & physical properties.
- Flame / Fire retardant- highly recommended in areas with high explosion & fire risks.
- Excellent mechanical protection during laying, installation & service.
- Optional class-5 conductor provides extra flexibility

Properties

- Halogen free
- Excellent fire resistance
- No smoke and fume generation
- Low gas emission
- Good mechanical tensile strength & elongation

Construction

- Conductor : Plain or tin plated copper, class-1 solid, class-2 stranded, class-5 flexible as per IS : 8130, BS 6360, IEC : 60228).
- Insulation : PVC-70°C/HR-85°C /105°C., BS 5308 or polyethylene to BS 6234.
- Pair / Triad identification: Identifications can be done by numbered polyester tape applied over each Pair/Triad or by number printing on core of each Pair / Triad.
- Overall screen : Multi Pair / Triad are laid up together and are shielded with aluminium-mylar tape along with tin copper drain wire longitudinal. Shielding of copper tape can also be provided.
- Inner sheath : Extruded PVC / LSZH inner sheath applied.
- Armour : Galvanized steel wire or strip are applied spirally over inner sheath as a mechanical protection.
- Outer sheath : Extruded PVC / FR / FRLS / LSZH sheathed (IEC 60502-1)



0303 - Instrumentation Cables

Multipair Instrumentation Cables (Armoured) To BS 5308 Part 1 Type 2-Collectively Screened

Part code	Conductor	Number of Pairs	Nominal Dia Under Armour (mm)	Nominal Overall Dia (mm)	Armour Wire Dia (mm)	Approx Weight (kg/km)
0303T010005S	1/0.8mm (0.5mm ²)	1	5.3	10.1	0.9	225
0303T020005S		2	6.1	10.9	0.9	250
0303T050005S		5	10.6	15.6	0.9	430
0303T100005S		10	14.0	20.1	1.25	730
0303T200005S		20	18.4	25.4	1.6	1200
0303T300005S		30	22.0	29.2	1.6	1500
0303T010005	16/0.2mm (0.5mm ²)	1	4.5	10.8	0.9	250
0303T020005		2	6.9	11.7	0.9	300
0303T050005		5	9.9	17.3	0.9	560
0303T100005		10	16.2	22.3	1.25	970
0303T200005		20	22.3	28.5	1.6	1640
0303T300005		30	32.9	33.3	1.6	2110
0303T010007	24/0.2mm (0.75mm ²)	1	6.3	11.1	0.9	280
0303T020007		2	7.3	12.3	0.9	330
0303T050007		5	13.3	19.2	1.25	750
0303T100007		10	17.7	24.7	1.6	1260
0303T200007		20	23.5	30.7	1.6	1890
0303T300007		30	28.5	36.9	1.6	2440
0303T010010S	1/1.13mm (1.0mm ²)	1	6.4	11.2	0.9	290
0303T020010S		2	7.4	12.4	0.9	345
0303T050010S		5	13.2	19.1	1.25	790
0303T100010S		10	17.4	23.7	1.25	1310
0303T200010S		20	23.3	30.6	1.6	2040
0303T300010S		30	28.0	35.6	1.6	2640
0303T010015	7/0.53mm (1.5mm ²)	1	7.3	12.3	0.9	330
0303T020015		2	13.3	13.7	0.9	420
0303T050015		5	21.1	21.5	1.25	940
0303T100015		10	27.4	27.8	1.6	1050
0303T200015		20	27.5	35.1	1.6	2400
0303T300015		30	27.8	41.9	1.6	3120

Note: S=Solid