

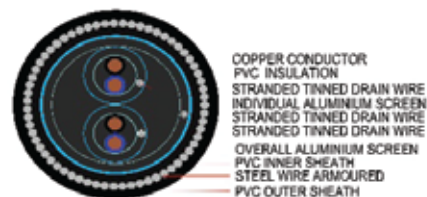
## COPPER CONDUCTOR, PVC INSULATED STEEL WIRE ARMoured, PVC SHEATHED INDIVIDUAL & OVERALL SCREENED, INSTRUMENTATION CABLE, 500V, BS EN 50288-7



- Application** : Cables are generally designed for indoor and outdoor that convey low energy electrical signals used for monitoring or controlling electrical power systems and their associated processes. Typical applications include industrial equipment control, broadcasting, assemble equipment or mass transit systems.
- Description** : Multi-pair cables with copper conductor, PVC insulated, individual & overall screened, Extrudered PVC bedding, Steel wire armoured, PVC sheathed Cable.
- CONSTRUCTION**
- Conductor** : Stranded annealed plain / tinned class-2 or Flexible class-5 copper conductor as per EN 60228
- Insulation** : PVC as per EN 50290-2-21
- Insulation Colour** : Pair Colour: Blue & Black with number printing
- Pairing** : Two insulated cores shall be uniformly twisted together to form a pair.
- Individual Screening** : Each pair screened with aluminium backed mylar tape, helically applied with the metallic side down in electrical contact with a stranded annealed tinned copper drain wire of 0.5 Sq.mm.
- Cabling** : Twisted pairs are laid up together with Non-Hygroscopic fillers if required.
- Overall Screening** : Accumulated pair screened with aluminium backed mylar tape, helically applied with the metallic side down in electrical contact with a stranded annealed tinned copper drain wire of 0.5 Sq.mm.
- Binder Tape (Optional)** : Polyester (Mylar)Tape
- Inner Sheath** : PVC (Polyvinyl Chloride) as per EN S0290-2-22
- Armour** : Galvanized Steel Wire Armour (GSA)
- Outer Sheath** : PVC (Polyvinyl Chloride) as per EN S0290-2-22

### Technical Characteristic

- Voltage Rating** : 500V
- Temperature rating** : Fixed: -15 to +70°C
- Sheath Colour** : As per customer requirement



### Electrical Characteristics for Instrumentation Cable

TECHNICAL DATA					
Conductor Size (Sq.mm)	05	0.75	1.0	1.5	2.5
Insulation Resistance M Ohm/km (Min.)	10	10	10	100	100
Mutual Capacitance nf/km( Max.)	250	250	250	250	250
Inductance to Resistance Ratio (L/R) $\mu$ H/Ohm (Max.)	25	25	25	40	60
Test Voltage AC Volt (rms) for 1 Minute	2000	2000	2000	2000	2000

**CU/PVC/PVC/GSWA/PVC Individual & Overall Screened Instrumentation Cable  
As Per BS EN 7-50288 Rated Voltage 500V**

**PHYSICAL PROPERTIES**

Catalogue Number	Size	Minimum Insulation Thickness	Nominal Inner Sheath Thickness	Diameter of Steel Wire Armour	Nominal Outer Sheath Thickness	Approx. Overall Dia	Approx. Cable Weight
	Pair x SQMM	MM	MM	MM	MM	MM	MM
NINCYWY**P005	2 x 0.5	0.44	1.0	0.9	1.4	15.5	430
	3 x 0.5	0.44	1.0	0.9	1.4	16.5	480
	4 x 0.5	0.44	1.0	0.9	1.4	17.5	530
	5 x 0.5	0.44	1.1	0.9	1.5	18.5	610
	10 x 0.5	0.44	1.3	1.25	1.6	25.5	1080
	20 x 0.5	0.44	1.4	1.25	1.8	31.0	1550
	30 x 0.5	0.44	1.6	1.6	1.9	36.5	2250
	36 x 0.5	0.44	1.7	1.6	2.0	39.5	2550
	48 X 0.5	0.44	1.8	1.6	2.1	43.6	3020
NINCYWY**P075	2 x 0.75	0.44	1.0	0.9	1.4	16.5	480
	3 x 0.75	0.44	1.0	0.9	1.4	17.5	530
	4 x 0.75	0.44	1.1	0.9	1.5	18.5	610
	5 x 0.75	0.44	1.1	0.9	1.5	20.0	680
	10 x 0.75	0.44	1.3	1.25	1.7	27.0	1180
	20 x 0.75	0.44	1.5	1.25	1.8	33.5	1775
	30 x 0.75	0.44	1.7	1.6	2.0	39.5	2550
	36 x 0.75	0.44	1.8	1.6	2.0	42.5	2900
	48 X 0.75	0.44	1.9	1.6	2.2	48.0	3550
NINCYWY**P010	2 x 1	0.44	1.0	0.9	1.4	17.0	500
	3 x 1	0.44	1.1	0.9	1.5	17.5	540
	4 x 1	0.44	1.1	0.9	1.5	19.5	640
	5 x 1	0.44	1.1	0.9	1.5	20.5	750
	10 x 1	0.44	1.3	1.25	1.7	28.5	1310
	20 x 1	0.44	1.5	1.25	1.8	35.0	1980
	30 x 1	0.44	1.7	1.6	2.0	42.0	2850
	36 x 1	0.44	1.8	1.6	2.1	45.0	3250
	48 X 1	0.44	2.0	2.0	2.2	52.0	4310
NINCYWY**P015	2 x 1.5	0.44	1.1	0.9	1.5	18.5	580
	3 x 1.5	0.44	1.1	0.9	1.5	19.5	680
	4 x 1.5	0.44	1.1	0.9	1.5	21.0	780
	5 x 1.5	0.44	1.2	0.9	1.6	23.0	880
	10 x 1.5	0.44	1.4	1.25	1.8	31.5	1575
	20 x 1.5	0.44	1.7	1.6	2.0	40.5	2625
	30 x 1.5	0.44	1.9	1.6	2.1	47.5	3750
	36 x 1.5	0.44	2.0	2.0	2.2	51.0	4280
	48 X 1.5	0.44	2.2	2.0	2.4	59.0	5800

**Notes:** Y(\*\*) Add Number of Pairs.

The above data is indicative & may be changed without prior information.

Cables can be supplied in multiples of 1000/500/250 mtrs or required by customer.mer.