



LINNET INSTRUMENTATION CABLE TO BS5308 PART 1

CONSTRUCTION

- > Conductor
- > Insulation
- > Twining
- > Pair Screen
- > Lay-up
- > Wrapping
- > Screen
- > Sheath

Bare annealed soft copper wire to BS EN 13602
 Polyethylene to BS 6234
 Two cores twisted together to form a pair
 Optional, Laminated screen tape with drain wire
 Pairs are laid up together to make concentric layers
 Polyester Tape is used for cable core wrapping
 Laminated screen tape with drain wire underneath outer protection
 PVC or LSHF (Low Smoke Halogen Free) optional

- Type 1 Cable Sheath PVC to BS 7655
- Type 2 Cable Bedding Polyethylene to BS 6234
- Armour Galvanized steel wire to BS 10257-1.1998
- Sheath PVC to BS 7655

PHYSICAL PROPERTIES

- > Operating Temp. -20...+70°C
- > Insulation Resistance 5 GΩ /KM Min.
- > Max. Voltage 300/500 V
- > Capacitance unbalance 250 pf/250m Max.
- > Test Voltage 1000 V r.m.s between conductor and screen

CABLE DIAMETERS

CONDUCTOR DIAMETER MM (NOMINAL)	CLASS	RESISTANCE Ω/KM @ 20°C	INSULATED DIAMETER MM (NOMINAL)	MAX L/R RATIO
1/0.8	1	36.8	0.75	25
1/1.13	1	18.4	0.90	25
16/0.2	5	39.7	1.15	25
7/0.53	2	12.3	1.50	40

NO. OF PAIRS	CONDUCTOR SIZE	CONDUCTOR CROSS SECTIONAL AREA MM²	NOMINAL DIAMETER OVER BEDDING (TYPE 1 CABLE) MM	NOMINAL ARMOURING WIRE DIAMETER MM	NOMINAL DIAMETER OVERALL (TYPE 2 CABLE) MM
2 Pair	1/0.8	0.5	6.1	0.9	10.5
5 Pair	1/0.8	0.5	10.6	0.9	15.2
10 Pair	1/0.8	0.5	14.0	1.25	19.7
20 Pair	1/0.8	0.5	18.4	1.6	25.0
2 Pair	1/1.13	1.0	7.4	0.9	12.0
5 Pair	1/1.13	1.0	13.2	1.25	18.7
10 Pair	1/1.13	1.0	16.4	1.25	23.3
20 Pair	1/1.13	1.0	20.3	1.6	27.1

COLOUR CODE FOR INSULATION

PAIR NO.	A-WIRE	B-WIRE	PAIR NO.	A-WIRE	B-WIRE	PAIR NO.	A-WIRE	B-WIRE	PAIR NO.	A-WIRE	B-WIRE	PAIR NO.	A-WIRE	B-WIRE
1	Black	Blue	11	Black	Red	21	Red	Orange	31	Green	Grey	41	White	Violet
2	Black	Green	12	Blue	Red	22	Black	Yellow	32	Brown	Grey	42	Red	Violet
3	Blue	Green	13	Green	Red	23	Blue	Yellow	33	White	Grey	43	Orange	Violet
4	Black	Brown	14	Brown	Red	24	Green	Yellow	34	Red	Grey	44	Yellow	Violet
5	Blue	Brown	15	White	Red	25	Brown	Yellow	35	Orange	Grey	45	Grey	Violet
6	Green	Brown	16	Black	Orange	26	White	Yellow	36	Yellow	Grey	46	Black	Turquoise
7	Black	White	17	Blue	Orange	27	Red	Yellow	37	Black	Violet	47	Blue	Turquoise
8	Blue	White	18	Green	Orange	28	Orange	Yellow	38	Blue	Violet	48	Green	Turquoise
9	Green	White	19	Brown	Orange	29	Black	Grey	39	Green	Violet	49	Brown	Turquoise
10	Brown	White	20	White	Orange	30	Blue	Grey	40	Brown	Violet	50	White	Turquoise

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