

INSTRUMENTATION CABLE

500 VOLTS GRADE, PVC INSULATED, INDIVIDUAL PAIR SCREENED & OVERALL SCREENED, ARMoured / UNARMoured INSTRUMENTATION CABLES CONFORMING TO EN:50288-7

INDIVIDUAL PAIR SCREENED & OVERALL SCREENED

0.5 SQ.MM

NO OF PAIR	2		4		8		12	
Cable Type	Unarmd.	Arm.	Unarmd.	Arm.	Unarmd.	Arm.	Unarmd.	Arm.
Conductor Diameter (mm)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Insulation thickness (min.) (mm)	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Thickness of sheath / bedding (Nom.)(mm)	-	1.0	-	1.0	-	1.2	-	1.3
Size of armour wire (Nom.) (mm)	-	0.9	-	0.9	-	0.9	-	1.25
Thickness of outer sheath (Nom.) (mm)	1.0	1.4	1.0	1.4	1.2	1.6	1.3	1.6
Overall diameter (For reference only) (mm)	9.0	14.0	10.5	15.5	14.5	19.5	17.0	22.5

1.0 SQ.MM

NO OF PAIR	2		4		8		12	
Cable Type	Unarmd.	Arm.	Unarmd.	Arm.	Unarmd.	Arm.	Unarmd.	Arm.
Conductor Diameter (mm)	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Insulation thickness (min.) (mm)	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Thickness of sheath / bedding (Nom.)(mm)	-	1.0	-	1.1	-	1.3	-	1.4
Size of armour wire (Nom.) (mm)	-	0.9	-	0.9	-	1.25	-	1.25
Thickness of outer sheath (Nom.) (mm)	1.0	1.4	1.1	1.5	1.3	1.6	1.4	1.7
Overall diameter (For reference only) (mm)	10.5	15.0	12.0	17.0	16.5	22.0	19.5	25.5

500 VOLTS GRADE, PVC INSULATED, OVERALL SCREENED, ARMoured / UNARMoured INSTRUMENTATION CABLES CONFORMING TO EN:50288-7

OVERALL SCREENED

0.5 SQ.MM

2		4		8		12	
Unarmd.	Arm.	Unarmd.	Arm.	Unarmd.	Arm.	Unarmd.	Arm.
0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
-	0.9	-	1.0	-	1.1	-	1.2
-	0.9	-	0.9	-	0.9	-	0.9
0.9	1.4	1.0	1.4	1.1	1.5	1.2	1.6
8.0	12.5	9.0	14.0	12.0	17.0	14.5	19.0

1.0 SQ.MM

2		4		8		12	
Unarmd.	Arm.	Unarmd.	Arm.	Unarmd.	Arm.	Unarmd.	Arm.
1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
-	1.0	-	1.0	-	1.2	-	1.3
-	0.9	-	0.9	-	0.9	-	1.25
1.0	1.4	1.0	1.4	1.2	1.5	1.3	1.6
9.0	13.5	10.5	15.0	14.0	19.0	16.5	22.5



INSTRUMENTATION CABLE

500 VOLTS GRADE, PVC INSULATED, INDIVIDUAL PAIR SCREENED & OVERALL SCREENED, ARMoured / UNARMoured INSTRUMENTATION CABLES CONFORMING TO EN:50288-7

INDIVIDUAL PAIR SCREENED & OVERALL SCREENED

1.5 SQ.MM

NO OF PAIR	2		4		8		12	
Cable Type	Unarmd.	Arm d.	Unarmd.	Arm d.	Unarmd.	Arm d.	Unarmd.	Arm d.
Conductor Diameter (mm)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Insulation thickness (min.) (mm)	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Thickness of sheath / bedding (Nom.)(mm)	-	1.1	-	1.1	-	1.3	-	1.5
Size of armour wire (Nom.) (mm)	-	0.9	-	0.9	-	1.25	-	1.25
Thickness of outer sheath (Nom.) (mm)	1.1	1.5	1.1	1.5	1.3	1.7	1.5	1.8
Overall diameter (For reference only) (mm)	11.5	16.0	13.5	18.5	18.5	24.0	22.0	28.0

500 VOLTS GRADE, PVC INSULATED, OVERALL SCREENED, ARMoured / UNARMoured INSTRUMENTATION CABLES CONFORMING TO EN:50288-7

OVERALL SCREENED

1.5 SQ.MM

2		4		8	12		
Unarmd.	Armd.	Unarmd.	Armd.	Unarmd.	Armd.	Unarmd.	Armd.
1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
-	1.0	-	1.1	-	1.2	-	1.3
-	0.9	-	0.9	-	1.25	-	1.25
1.0	1.4	1.1	1.5	1.2	1.6	1.3	1.7
10.0	14.5	11.5	16.5	16.0	21.5	18.5	24.5

GENERAL ELECTRICAL CHARACTERISTICS

Particular	Units	0.5 SQ.MM.	1.0 SQ.MM.	1.5 SQ.MM.
Maximum D.C. Resistance of Bare copper conductor at 20°C	Ω/km	39.7	18.1	12.1
Maximum D.C. Resistance of Tinned copper conductor at 20°C	Ω/km	40.5	18.2	12.2
Min. Insulation resistance (PVC Insulated cables)	MΩ/km	10	10	10
Maximum mutual capacitance (PVC insulated cables)	nF/km	250	250	250
L/R ratio maximum	μH/ohm	25	25	40

Note:

- Technical Data provided is for Solid (Class 1) conductor and PVC-GP (General purpose). Details given are for reference only and may be revised without notice.
- Other details can be provided on request.

