

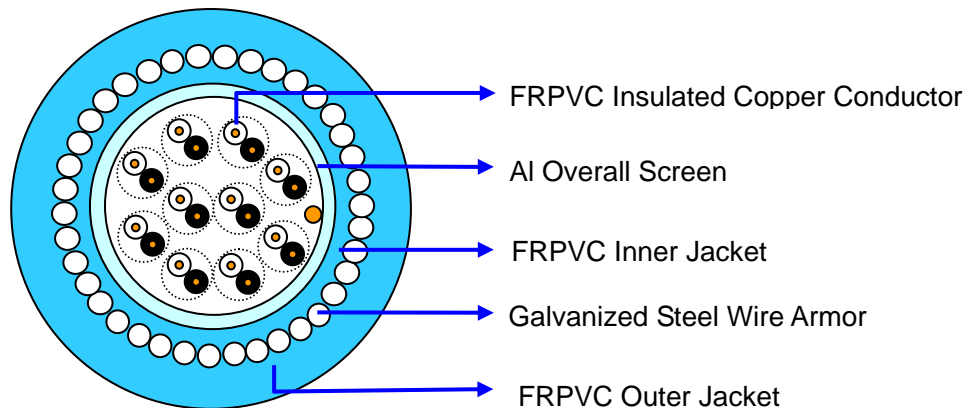


BS5308 Part2 Type 2
300/500V FRPVC Insulated Overall Screen
FRPVC Inner Jacket Steel Wire Armored FRPVC Jacket Cable

Application:

Instrumentation cables are multi conductor cables which convey low energy electrical signals used for monitoring or controlling electrical power systems and their associated processes. Instrumentation cables convey signals from process monitors to process analyzers (usually electronics equipment) and from the analyzers to control equipment in the electric power system..

Construction:



Conductor: Annealed copper wire conductors to BS 6360, class 2 or class 5 (stranded).

Insulation: Conductors are insulated with a layer of extruded normal FRPVC.

Pair color: Black, Blue

Triad color: Black, Blue, Brown

Collective screen: Aluminium/p.e.t.p. laminated tape applied with the metallic side down in electrical contact with a 0.5mm 2 tinned copper drain wire over the p.e.t.p. binder tape.

Inner Sheathing: An inner layer of extruded FRPVC is applied over the cable core. Color: Black or Blue

Armor: Galvanized steel wire

Outer Sheathing: An outer protection of extruded FRPVC compound is applied over the armour. Color: Black or Blue.



Standard: BS5308

Flame Retardant: IEC 60332-1

Packing: The cables are delivered on non-returnable wood drums.

Technical Information:

		Unit	Conductor size				
			0.5mm 2	0.75mm 2	1.0mm 2	1.5mm 2	2.5mm 2
			(16/0.2mm)	(7/0.37mm)	(7/0.43mm)	(7/0.53 mm)	(7/0.67mm)
Conductor resistance	max.	Ω/Km	39.7	25	18.5	12.2	7.44
Insulation resistance	max.	GΩxKm	5	5	5	5	5
Mutual capacitance at 1 kHz Mutual capacitance of the pairs	max.	pF/m	250	250	250	250	250
Inductance/resistance ratio(L/R)	max.	μH/Ω	25	25	25	25	25
Test voltage(Core:core)		V	1000	1000	1000	1000	1000
(Core:core)		V	1000	1000	1000	1000	1000
Rated voltage	max.	v	300/500	300/500	300/500	300/500	300/500

Cable Size:

Paired Overall screen type

Conductor	Number of Pairs	Nominal Dia under Armour (mm)	Nominal Overall Dia (mm)	Armour Wire Dia (mm)	Approx Weight (kg/km)
0.5mm 2	1	6.8	11.2	0.9	250
	2(Quad)	7.7	12.1	0.9	300
	5	12.5	17.3	0.9	560
	7	14.4	19.4	1.0	760
	10	17.1	22.8	1.25	970



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	20	20.8	27.6	1.6	1640
	30	25.4	32.4	1.6	2110
0.75mm 2	1	7.2	11.6	0.9	280
	2(Quad)	8.2	12.8	0.9	330
	5	13.8	19.3	1.25	750
	7	15.9	21.4	1.25	960
	10	18.6	25.2	1.6	1260
	20	22.9	29.7	1.6	1890
	30	27.8	36.0	1.6	2440
1.0mm 2	1	7.6	12.2	0.9	290
	2(Quad)	8.6	13.2	0.9	345
	5	14.6	20.3	1.25	790
	7	16.6	22.3	1.25	980
	10	19.7	25.8	1.25	1310
	20	24.5	31.7	1.6	2040
	30	30.1	37.5	1.6	2640
1.5mm 2	1	8.4	13.0	0.9	330
	2(Quad)	9.6	14.2	0.9	420
	5	16.3	22.0	1.25	940
	7	18.1	23.8	1.25	980
	10	21.8	28.6	1.6	1050
	12	23.4	30.4	1.6	1839
	20	27.0	34.2	1.6	2400
	30	33.0	41.2	1.6	3120

Triad Overall Screen Cable

Conductor	Number of Triads	Nominal Dia under Armour (mm)	Nominal Overall Dia (mm)	Armour Wire Dia (mm)	Approx Weight (kg/km)
1.0mm2	1	6.8	11.8	0.9	298
	2	7.8	16.7	0.9	528
	4	14.3	27.0	1.25	694
	5	15.2	27.6	1.25	765
	6	16.7	28.4	1.25	941
	7	17.6	30.4	1.25	1060
	8	18.6	32.8	1.6	1162
1.5mm2	1	7.6	13.1	0.9	328
	2	13.2	18.2	0.9	593
	4	22.7	29.6	1.25	891
	5	25.7	31.8	1.25	1120
	6	28.2	33.9	1.25	1242



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	7	28.9	34.8	1.25	1292
	8	29.6	36.4	1.6	1358

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