



PT SUPREME CABLE

MANUFACTURING & COMMERCE Tbk.

(PT SUCACO Tbk.)



Product Catalogue
**INSTRUMENTATION
CABLE**

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YOU CAN TRUST**

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COMPANY BACKGROUND

Specializing in the cable business for over 38 years, PT. SUPREME CABLE MANUFACTURING & COMMERCE Tbk. (PT. SUCACO Tbk) has grown steadily to become a largest and leading cable manufacturer, with international reputation for quality and reliability. Established in 1970, PT SUCACO Tbk. is a pioneer in the modern industry. With technical assistance from Furukawa Electric Co Ltd Japan and International Executives Service Corp, USA, the company began commercial operations in 1972.

We produce and markets power cable upto 150 kV, optical and telecommunication cables, control cables, instrumentation cables, coaxial cables and enamelled wires under brand name of " SUPREME ". The Company is also involved through its affiliated companies, in various line of business. The company has a Quality Assurance Program and ISO 9001 certificate from SGS international certification body of quality management system. Today, PT SUCACO Tbk. has grown to become a reliable partner in infrastructures, buildings and various projects.



SUPREME
INSTRUMENTATION
CABLES



SUPREME CABLE



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Instrumentation Cables

PE/XLPE insulation





CSEV

300/500 Volt

Single & multi pairs, PE insulated,
Overall shielded, PVC sheathed
BS 5308-1
0.5 1.5 mm²

APPLICATION :

Suitable used in duct, cable tray or conduit for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire. Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyethylene (PE) type 03 to BS 6234.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Overall shielding** : Twisted pairs are assembled with non-hygrscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Orange colour.
- **Cable marking** : SUPREME CABLE CSEV " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Overall shielded Tinned copper drain wire	Approximately		Standard delivery length	Bending radius , min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath		Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	Kg/km	m	mm
1	1	0.5	1/0.8	0.5	0.8	0.5	6.5	40	1,000	55
2	1	0.5	1/0.8	0.5	0.8	0.5	7	56	1,000	60
5	1	0.5	1/0.8	0.5	1.1	0.5	11	123	1,000	90
10	1	0.5	1/0.8	0.5	1.2	0.5	15	213	1,000	120
15	1	0.5	1/0.8	0.5	1.2	0.5	17.5	294	1,000	140
20	1	0.5	1/0.8	0.5	1.3	0.5	19.5	380	500	160
30	1	0.5	1/0.8	0.5	1.3	0.5	23	535	500	185
50	1	0.5	1/0.8	0.5	1.5	0.5	29	860	500	235
1	1	1.0	1/1.13	0.6	0.8	0.5	7.5	55	1,000	60
2	1	1.0	1/1.13	0.6	0.8	0.5	8.5	84	1,000	70
5	1	1.0	1/1.13	0.6	1.2	0.5	14	199	1,000	115
10	1	1.0	1/1.13	0.6	1.2	0.5	18	346	1,000	145
15	1	1.0	1/1.13	0.6	1.3	0.5	21.5	497	1,000	175
20	1	1.0	1/1.13	0.6	1.5	0.5	24.5	658	500	200
30	1	1.0	1/1.13	0.6	1.5	0.5	29	937	500	235
50	1	1.0	1/1.13	0.6	2.0	0.5	37.5	1,561	500	300
1	2	1.5	7/0.53	0.6	0.8	0.5	8.5	71	1,000	70
2	2	1.5	7/0.53	0.6	0.9	0.5	10	116	1,000	80
5	2	1.5	7/0.53	0.6	1.2	0.5	16	268	1,000	130
10	2	1.5	7/0.53	0.6	1.3	0.5	21	486	1,000	170
15	2	1.5	7/0.53	0.6	1.5	0.5	25.5	712	1,000	205
20	2	1.5	7/0.53	0.6	1.5	0.5	28.5	916	500	230
30	2	1.5	7/0.53	0.6	1.7	0.5	34.5	1,346	500	280
50	2	1.5	7/0.53	0.6	2.0	0.5	44	2,195	500	355
1	5	0.5	16/0.2	0.6	0.8	0.5	7	44	1,000	60
2	5	0.5	16/0.2	0.6	0.8	0.5	8	63	1,000	65
5	5	0.5	16/0.2	0.6	1.1	0.5	13	140	1,000	105
10	5	0.5	16/0.2	0.6	1.2	0.5	17	242	1,000	140
15	5	0.5	16/0.2	0.6	1.2	0.5	20	342	1,000	160
20	5	0.5	16/0.2	0.6	1.3	0.5	22.5	433	500	180
30	5	0.5	16/0.2	0.6	1.5	0.5	27	631	500	220
50	5	0.5	16/0.2	0.6	1.7	0.5	34	1,007	500	275

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C			Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation min	Unbalance	Mutual		Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors			Core to core		
-	mm ²	Ω/Km		GΩ.Km	pF/250 m	pF/m	μH/Ω	Volt / 1 minute	
1	0.5	36	36.7	5	250	115	25	1,000	
1	1.0	18.1	18.2	5	250	115	25	1,000	
2	1.5	12.1	12.2	5	250	115	40	1,000	
5	0.5	39	40.1	5	250	115	25	1,000	



CSCV-TCWB

300 Volt

Single & multi pairs, XLPE insulated, Overall shielded,
Tinned copper wire braiding, PVC sheathed

BS EN 50288-7

0.5 1.5 mm²

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire. Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : XLPE to BS 7655.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Overall shielding** : Twisted pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- **Braid shielding** : Tinned annealed copper wire to protect against electromagnetic noise..
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC), TM1 type to BS 6746, Black colour.
- **Cable marking** : SUPREME CABLE CSCV-TCWB " SIZE " 300 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 90 °C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Overall shielded	Diameter of tinned copper wire braiding	Approximately		Standard delivery length	Bending radius , min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	mm	Kg/km	m	mm
1	2	0.5	7/0.3	0.4	0.9	0.5	6.3	8.5	92	500	70
2	2	0.5	7/0.3	0.4	1.0	0.5	10	12	169	500	100
5	2	0.5	7/0.3	0.4	1.1	0.5	12.4	15	247	500	120
1	2	0.75	7/0.37	0.4	0.9	0.5	6.8	9	116	500	75
2	2	0.75	7/0.37	0.4	1.1	0.5	10.8	13.5	197	500	110
1	2	1.5	7/0.53	0.5	1.0	0.5	8.2	10.5	156	500	85
2	2	1.5	7/0.53	0.5	1.1	0.5	13.6	16	272	500	130

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation min	Between any core or shield	Mutual	Core to core		Core to shield	
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors				µH/Ω		Volt / 1 minute
-	mm ²	Ω/Km		MΩ.Km	pF/m		µH/Ω	Volt / 1 minute		
5	0.5	39	40.1	1,000	400	250	25	1,000		
5	0.75	26	26.7	1,000	400	250	25	1,000		
2	1.5	12.1	12.2	1,000	400	250	40	1,000		



PSEV

300/500 Volt

Single & multi pairs, PE insulated, Individual and overall shielded, PVC sheathed
BS 5308 - 1
0.51.5 mm²

APPLICATION :

Suitable used in duct, cable tray or conduit for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire . Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyethylene (PE) type 03 to BS 6234.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Individual shielding** : Each pair is shielded with strand tinned annealed copper wire and aluminium foil tape to give a maximum protection against electrostatic noise and crosstalk interference.
- **Overall shielding** : All pairs shields are isolated from each other. Individually shielded pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Black colour.
- **Cable marking** : SUPREME CABLE PSEV " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Ind. and overall shielded	Approximately		Standard delivery length	Bending radius , min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath		Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		Tinned copper drain wire mm ²	mm	Kg/km	m	mm
2	5	0.5	1/0.8	0.5	0.9	0.5	12	100	1,000	100
5	5	0.5	1/0.8	0.5	1.2	0.5	14	187	1,000	115
10	5	0.5	1/0.8	0.5	1.2	0.5	23	349	1,000	185
15	5	0.5	1/0.8	0.5	1.3	0.5	26.5	490	1,000	215
20	5	0.5	1/0.8	0.5	1.3	0.5	29	619	500	235
30	5	0.5	1/0.8	0.5	1.5	0.5	35	902	500	280
50	5	0.5	1/0.8	0.5	2.0	0.5	45.5	1,507	500	365
2	1	1.0	1/1.13	0.6	1.1	0.5	15	146	1,000	120
5	1	1.0	1/1.13	0.6	1.2	0.5	16.5	263	1,000	135
10	1	1.0	1/1.13	0.6	1.3	0.5	27	511	1,000	220
15	1	1.0	1/1.13	0.6	1.5	0.5	31.5	737	1,000	255
20	1	1.0	1/1.13	0.6	1.7	0.5	25.5	965	500	205
30	1	1.0	1/1.13	0.6	2.0	0.5	42.5	1,417	500	340
50	1	1.0	1/1.13	0.6	2.2	0.5	55	2,265	500	440
2	2	1.5	7/0.53	0.6	0.8	0.5	17	188	1,000	140
5	2	1.5	7/0.53	0.6	0.9	0.5	18.5	345	1,000	150
10	2	1.5	7/0.53	0.6	1.2	0.5	31.5	686	1,000	255
15	2	1.5	7/0.53	0.6	1.3	0.5	36.5	986	500	295
20	2	1.5	7/0.53	0.6	1.5	0.5	40.5	1,254	500	325
30	2	1.5	7/0.53	0.6	1.5	0.5	48.5	1,848	500	390
50	2	1.5	7/0.53	0.6	1.7	0.5	62.5	2,969	500	500
2	5	0.5	16/0.2	0.6	1.1	0.5	14.5	122	1,000	120
5	5	0.5	16/0.2	0.6	1.2	0.5	15.5	208	1,000	125
10	5	0.5	16/0.2	0.6	1.3	0.5	25.5	400	1,000	205
15	5	0.5	16/0.2	0.6	1.5	0.5	30	572	1,000	240
20	5	0.5	16/0.2	0.6	1.5	0.5	33.5	718	500	270
30	5	0.5	16/0.2	0.6	1.7	0.5	39.5	1,040	500	320
50	5	0.5	16/0.2	0.6	2.2	0.5	51.5	1,725	500	415

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation , min		Unbalance	Mutual		Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors	Between shields					
-	mm ²	Ω/Km		GΩ.Km	MΩ.Km	pF/250 m	pF/m	μH/Ω	Volt / 1 minute	
1	0.5	36	36.7	5	1	250	115	25	1,000	
1	1.0	18.1	18.2	5	1	250	115	25	1,000	
2	1.5	12.1	12.2	5	1	250	115	40	1,000	
5	0.5	39	40.1	5	1	250	115	25	1,000	



PSCV-TCWB

300 Volt

Single & multi pairs, XLPE insulated,
Individual and overall shielded,
Tinned copper wire braiding,
PVC sheathed
BS EN 50288-7
0.5 1.5 mm²

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire .
Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : XLPE to BS 7655.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Individual shielding** : Each pair is shielded with strand tinned annealed copper wire and aluminium foil tape to give a maximum protection against electrostatic noise and crosstalk interference.
- **Overall shielding** : All pairs shields are isolated from each other. Individually shielded pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- **Braid shielding** : Tinned annealed copper wire to protect against electromagnetic noise.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746 , Black colour.
- **Cable marking** : SUPREME CABLE PSCV-TCWB " SIZE " 300 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 90 °C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Ind. and overall shielded	Diameter of tinned copper wire braiding	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	mm	Kg/km	m	mm
2	2	0.5	7/0.30	0.4	1.1	0.5	9.7	11.9	190	500	95
5	2	0.5	7/0.30	0.4	1.2	0.5	12	14.4	288	500	115
2	2	0.75	7/0.37	0.4	1.1	0.5	10.4	12.6	212	500	100
2	2	1.5	7/0.53	0.5	1.2	0.5	12.9	15.3	292	500	125

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation , min		Between any core or shield	Mutual		Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors	Between shields					
-	mm ²	Ω/Km		MΩ.Km		pF/m		μH/Ω	Volt / 1 minute	
5	0.5	39	40.1	1,000	1	400	250	25	1,000	
5	0.75	26	26.7	1,000	1	400	250	25	1,000	
2	1.5	12.1	12.2	1,000	1	400	250	40	1,000	



CSEV-SWA

300/500 Volt

Single & multi pairs, PE insulated,
Overall shielded, Armoured, PVC sheathed
BS 5308 - 1

0.5 1.5 mm²

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire .
Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyethylene (PE) type 03 to BS 6234.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Overall shielding** : Twisted pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- **Armouring** : Galvanized round steel wire.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Black colour.
- **Cable marking** : SUPREME CABLE CSEV-SWA " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Overall shielded Tinned copper drain wire	Dia of armour wire	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	mm	Kg/km	m	mm
1	1	0.5	1/0.8	0.5	1.3	0.5	0.9	11	219	1,000	110
2	1	0.5	1/0.8	0.5	1.3	0.5	0.9	11.5	254	1,000	115
5	1	0.5	1/0.8	0.5	1.4	0.5	0.9	16	422	1,000	160
10	1	0.5	1/0.8	0.5	1.6	0.5	1.25	20.5	747	1,000	205
15	1	0.5	1/0.8	0.5	1.6	0.5	1.25	23	905	1,000	230
20	1	0.5	1/0.8	0.5	1.7	0.5	1.6	26	1,234	500	260
30	1	0.5	1/0.8	0.5	1.8	0.5	1.6	30	1,543	500	300
50	1	0.5	1/0.8	0.5	2.0	0.5	1.6	36.5	2,146	500	365
1	1	1.0	1/1.13	0.6	1.3	0.5	0.9	12.5	277	1,000	125
2	1	1.0	1/1.13	0.6	1.4	0.5	0.9	13.5	346	1,000	135
5	1	1.0	1/1.13	0.6	1.5	0.5	1.25	20	752	1,000	200
10	1	1.0	1/1.13	0.6	1.7	0.5	1.25	25	1,118	1,000	250
15	1	1.0	1/1.13	0.6	1.8	0.5	1.6	30	1,629	1,000	300
20	1	1.0	1/1.13	0.6	1.8	0.5	1.6	33	1,972	500	330
30	1	1.0	1/1.13	0.6	2.0	0.5	1.6	38.5	2,555	500	385
50	1	1.0	1/1.13	0.6	2.2	0.5	2	48.5	4,108	500	485
1	2	1.5	7/0.53	0.6	1.4	0.5	0.9	13	302	1,000	130
2	2	1.5	7/0.53	0.6	1.4	0.5	0.9	14.5	381	1,000	145
5	2	1.5	7/0.53	0.6	1.6	0.5	1.25	21.5	814	1,000	215
10	2	1.5	7/0.53	0.6	1.8	0.5	1.6	28	1,413	1,000	280
15	2	1.5	7/0.53	0.6	1.9	0.5	1.6	32.5	1,835	1,000	325
20	2	1.5	7/0.53	0.6	2.0	0.5	2	36.5	2,445	500	365
30	2	1.5	7/0.53	0.6	2.1	0.5	2	42.5	3,177	500	425
50	2	1.5	7/0.53	0.6	2.4	0.5	2.5	53.5	5,045	500	535
1	5	0.5	16/0.2	0.6	1.3	0.5	0.9	11.5	237	1,000	115
2	5	0.5	16/0.2	0.6	1.3	0.5	0.9	12.5	281	1,000	125
5	5	0.5	16/0.2	0.6	1.5	0.5	0.9	17.5	481	1,000	175
10	5	0.5	16/0.2	0.6	1.6	0.5	1.25	22.5	841	1,000	225
15	5	0.5	16/0.2	0.6	1.7	0.5	1.6	26.5	1,215	1,000	265
20	5	0.5	16/0.2	0.6	1.8	0.5	1.6	29.5	1,420	500	295
30	5	0.5	16/0.2	0.6	1.9	0.5	1.6	34	1,818	500	340
50	5	0.5	16/0.2	0.6	2.1	0.5	2	42.5	2,834	500	425

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation min	Unbalance	Mutual	Core to core		Core to shield	
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors						
-	mm ²	Ω/Km		GΩ.Km	pF/250 m	pF/m	μH/Ω	Volt / 1 minute		
1	0.5	36	36.7	5	250	115	25	1,000		
1	1.0	18.1	18.2	5	250	115	25	1,000		



PSEV-SWA

300/500 Volt

Single & multi pairs, PE insulated, Individual and overall shielded, Armoured, PVC sheathed
BS 5308 - 1
0.51.5 mm²

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire .
Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyethylene (PE) type 03 to BS 6234.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Individual shielding** : Each pair is shielded with strand tinned annealed copper wire and aluminium foil tape to give a maximum protection against electrostatic noise and crosstalk interference.
- **Overall shielding** : All pairs shields are isolated from each other. Individually shielded pairs are assembled with non- hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- **Armouring** : Galvanized round steel wire.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Blue colour.
- **Cable marking** : SUPREME CABLE PSEV-SWA " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Ind. and overall shielded	Dia of armour wire	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-		mm ²	pcs/mm	mm		mm ²	mm	mm	Kg/km	m	mm
2	1	0.5	1/0.8	0.5	1.4	0.5	0.9	17	432	1,000	170
5	1	0.5	1/0.8	0.5	1.5	0.5	1.25	19.5	673	1,000	195
10	1	0.5	1/0.8	0.5	1.7	0.5	1.25	28.5	1,131	1,000	285
15	1	0.5	1/0.8	0.5	1.7	0.5	1.6	33	1,581	1,000	330
20	1	0.5	1/0.8	0.5	1.8	0.5	1.6	36	1,842	500	360
30	1	0.5	1/0.8	0.5	1.9	0.5	1.6	42	2,363	500	420
50	1	0.5	1/0.8	0.5	2.2	0.5	2	54	3,844	500	540
2	1	1.0	1/1.13	0.6	1.5	0.5	0.9	20	543	1,000	200
5	1	1.0	1/1.13	0.6	1.6	0.5	1.25	22	832	1,000	220
10	1	1.0	1/1.13	0.6	1.8	0.5	1.6	34	1,655	1,000	340
15	1	1.0	1/1.13	0.6	1.9	0.5	1.6	38.5	2,076	500	385
20	1	1.0	1/1.13	0.6	2.0	0.5	2	43.5	2,796	500	435
30	1	1.0	1/1.13	0.6	2.2	0.5	2	51	3,628	500	510
50	1	1.0	1/1.13	0.6	2.5	0.5	2.5	65	5,744	300	650
2	2	1.5	7/0.53	0.6	1.6	0.5	1.25	23	782	1,000	230
5	2	1.5	7/0.53	0.6	1.7	0.5	1.6	25	1,138	1,000	250
10	2	1.5	7/0.53	0.6	1.9	0.5	1.6	38.5	2,006	1,000	385
15	2	1.5	7/0.53	0.6	2.0	0.5	2	44.5	2,549	1,000	445
20	2	1.5	7/0.53	0.6	2.1	0.5	2	48.5	3,348	500	485
30	2	1.5	7/0.53	0.6	2.5	0.5	2.5	58.5	4,948	500	585
50	2	1.5	7/0.53	0.6	2.7	0.5	2.5	73	6,985	300	730
2	5	0.5	16/0.2	0.6	1.5	0.5	0.9	19	503	1,000	190
5	5	0.5	16/0.2	0.6	1.6	0.5	1.25	21	741	1,000	210
10	5	0.5	16/0.2	0.6	1.8	0.5	1.6	32.5	1,484	500	325
15	5	0.5	16/0.2	0.6	1.8	0.5	1.6	37	1,833	500	370
20	5	0.5	16/0.2	0.6	1.9	0.5	1.6	40.5	2,117	500	405
30	5	0.5	16/0.2	0.6	2.1	0.5	2	48	3,076	500	480
50	5	0.5	16/0.2	0.6	2.4	0.5	2.5	61.5	4,987	300	615

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation , min		Unbalance	Mutual		Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors	Between shields			µH/Ω		
-	mm ²	Ω/Km		GΩ.Km	MΩ.Km	pF/250 m	pF/m	µH/Ω	Volt / 1 minute	
1	0.5	36	36.7	5	1	250	115	25	1,000	
1	1.0	18.1	18.2	5	1	250	115	25	1,000	
2	1.5	12.1	12.2	5	1	250	115	40	1,000	
5	0.5	39	40.1	5	1	250	115	25	1,000	



CSEV-LS/SWA

300/500 Volt

CSEV-LS/SWA 300/500 Volt
Single & multi pairs, PE insulated,
Overall shielded, Lead sheathed, Armoured,
PVC sheathed
BS 5308 - 1
0.51.5 mm²

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry chemical plant and in area in which ground water contains waste oils or sulfides.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire. Class 1, 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyethylene (PE) type 03 to BS 6234.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Overall shielding** : Twisted pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Bedding/filler** : Extruded Polyvinyl Chloride (PVC) filler.
- **Lead sheath** : Lead alloy "E" grade.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC), Black colour.
- **Armouring** : Galvanized round steel wire.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC), TM1 type to BS 6746, Orange colour.
- **Cable marking** : SUPREME CABLE CSEV-LS/SWA " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C.**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness			Overall shielded Tinned copper drain wire	Dia of armour wire	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Lead sheath	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm			mm ²	mm	mm	Kg/km	m	mm
1	1	0.5	1/0.8	0.5	1.1	1.4	0.5	0.9	15	634	1,000	150
2	1	0.5	1/0.8	0.5	1.1	1.4	0.5	0.9	15.5	702	1,000	155
5	1	0.5	1/0.8	0.5	1.1	1.6	0.5	1.25	21	1,184	1,000	210
10	1	0.5	1/0.8	0.5	1.1	1.7	0.5	1.6	25.5	1,738	1,000	255
15	1	0.5	1/0.8	0.5	1.2	1.8	0.5	1.6	28.5	2,113	1,000	285
20	1	0.5	1/0.8	0.5	1.3	1.8	0.5	1.6	31	2,489	500	310
30	1	0.5	1/0.8	0.5	1.4	1.9	0.5	1.6	35	3,092	500	350
50	1	0.5	1/0.8	0.5	1.5	2.1	0.5	2	42.5	4,491	500	425
1	1	1.0	1/1.13	0.6	1.1	1.4	0.5	0.9	16.5	756	1,000	165
2	1	1.0	1/1.13	0.6	1.1	1.5	0.5	0.9	17.5	871	1,000	175
5	1	1.0	1/1.13	0.6	1.1	1.7	0.5	1.6	25.5	1,745	1,000	255
10	1	1.0	1/1.13	0.6	1.2	1.8	0.5	1.6	30.5	2,426	1,000	305
15	1	1.0	1/1.13	0.6	1.3	1.9	0.5	1.6	34.5	3,082	1,000	345
20	1	1.0	1/1.13	0.6	1.4	2.0	0.5	2	39.5	4,015	500	395
30	1	1.0	1/1.13	0.6	1.5	2.1	0.5	2	45	5,086	500	450
50	1	1.0	1/1.13	0.6	1.8	2.4	0.5	2.5	56.5	7,928	500	565
1	2	1.5	7/0.53	0.6	1.1	1.5	0.5	0.9	17	804	1,000	170
2	2	1.5	7/0.53	0.6	1.1	1.5	0.5	1.25	19	1,054	1,000	190
5	2	1.5	7/0.53	0.6	1.2	1.7	0.5	1.6	27	1,942	1,000	270
10	2	1.5	7/0.53	0.6	1.3	1.9	0.5	1.6	32.5	2,748	1,000	325
15	2	1.5	7/0.53	0.6	1.4	2.0	0.5	2	38.5	3,814	500	385
20	2	1.5	7/0.53	0.6	1.5	2.1	0.5	2	42.5	4,488	500	425
30	2	1.5	7/0.53	0.6	1.7	2.3	0.5	2.5	50.5	6,401	500	505
50	2	1.5	7/0.53	0.6	2.0	2.6	0.5	2.5	61	9,130	300	610
1	5	0.5	16/0.2	0.6	1.1	1.4	0.5	0.9	15.5	687	1,000	155
2	5	0.5	16/0.2	0.6	1.1	1.4	0.5	0.9	16.5	764	1,000	165
5	5	0.5	16/0.2	0.6	1.1	1.6	0.5	1.25	22.5	1,304	1,000	225
10	5	0.5	16/0.2	0.6	1.2	1.8	0.5	1.6	28	2,040	1,000	280
15	5	0.5	16/0.2	0.6	1.3	1.8	0.5	1.6	31.5	2,495	1,000	315
20	5	0.5	16/0.2	0.6	1.3	1.9	0.5	1.6	34	2,829	500	340
30	5	0.5	16/0.2	0.6	1.5	2.1	0.5	2	41	4,051	500	410
50	5	0.5	16/0.2	0.6	1.7	2.3	0.5	2.5	50	6,039	500	500

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor, max		Insulation min	Between conductors	Unbalance	Mutual		Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Ω/Km				GΩ.Km		
-	mm ²									
1	0.5	36	36.7	5	250	115	25		1,000	
1	1.0	18.1	18.2	5	250	115	25		1,000	
2	1.5	12.1	12.2	5	250	115	40		1,000	
5	0.5	39	40.1	5	250	115	25		1,000	



PSEV-LS/SWA

300/500 Volt

Single & multi pairs, PE insulated,
Individual and overall shielded,
Lead sheathed, Armoured, PVC sheathed

BS 5308 - 1

0.51.5 mm²

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry, chemical plant and in area in which ground water contains waste oils or sulfides.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire .
Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyethylene (PE) type 03 to BS 6234.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Individual shielding** : Each pair is shielded with strand tinned annealed copper wire and aluminium foil tape to give a maximum protection against electrostatic noise and crosstalk interference.
- **Overall shielding** : All pairs shields are isolated from each other. Individually shielded pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Bedding/filler** : Extruded Polyvinyl Chloride (PVC) filler.
- **Lead sheath** : Lead alloy "E" grade.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- **Armouring** : Galvanized round steel wire.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Black colour.
- **Cable marking** : SUPREME CABLE PSEV-LS/SWA " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness			Ind. and Overall shielded	Dia of armour wire	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Lead sheath	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm			mm ²	mm	mm	Kg/km	m	mm
2	1	0.5	1/0.8	0.5	1.1	1.5	0.5	1.25	22	1,245	1,000	220
5	1	0.5	1/0.8	0.5	1.1	1.6	0.5	1.25	23.5	1,437	1,000	235
10	1	0.5	1/0.8	0.5	1.2	1.7	0.5	1.6	34	2,609	1,000	340
15	1	0.5	1/0.8	0.5	1.3	1.9	0.5	1.6	38	3,208	500	380
20	1	0.5	1/0.8	0.5	1.4	1.9	0.5	2	42	4,082	500	420
30	1	0.5	1/0.8	0.5	1.5	2.0	0.5	2	48.5	5,089	500	485
50	1	0.5	1/0.8	0.5	1.8	2.3	0.5	2.5	61.5	8,073	300	615
2	1	1.0	1/1.13	0.6	1.1	1.6	0.5	1.25	25.5	1,564	1,000	255
5	1	1.0	1/1.13	0.6	1.2	1.7	0.5	1.6	28	2,085	1,000	280
10	1	1.0	1/1.13	0.6	1.3	1.9	0.5	1.6	40.5	3,531	500	405
15	1	1.0	1/1.13	0.6	1.5	2.1	0.5	2	47	4,940	500	470
20	1	1.0	1/1.13	0.6	1.6	2.2	0.5	2	52	5,840	500	520
30	1	1.0	1/1.13	0.6	1.7	2.4	0.5	2.5	61.5	8,085	300	615
50	12	1.0	1/1.13	0.6	2.0	2.7	0.5	2.5	76	11,589	250	760
2	2	1.5	7/0.53	0.6	1.1	1.7	0.5	1.6	28	1,896	1,000	280
5	2	1.5	7/0.53	0.6	1.2	1.8	0.5	1.6	29.5	2,253	1,000	295
10	2	1.5	7/0.53	0.6	1.5	2.1	0.5	2	45	4,523	500	450
15	2	1.5	7/0.53	0.6	1.6	2.2	0.5	2	50.5	5,636	500	505
20	2	1.5	7/0.53	0.6	1.7	2.3	0.5	2.5	56.5	7,029	500	565
30	2	1.5	7/0.53	0.6	1.9	2.5	0.5	2.5	65	9,067	300	650
50	2	1.5	7/0.53	0.6	2.2	2.9	0.5	2.5	81	13,032	250	810
2	5	0.5	16/0.2	0.6	1.1	1.6	0.5	1.25	24	1,403	1,000	240
5	5	0.5	16/0.2	0.6	1.1	1.7	0.5	1.6	26.5	1,763	1,000	265
10	5	0.5	16/0.2	0.6	1.3	1.9	0.5	1.6	37.5	3,049	500	375
15	5	0.5	16/0.2	0.6	1.4	2.0	0.5	2	43	4,103	500	430
20	5	0.5	16/0.2	0.6	1.5	2.1	0.5	2	47	4,761	500	470
30	5	0.5	16/0.2	0.6	1.6	2.2	0.5	2	53.5	5,947	500	535
50	5	0.5	16/0.2	0.6	1.9	2.6	0.5	2.5	68.5	9,382	300	685

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation , min		Unbalance	Mutual		Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors	Between shields			µH/Ω		
-	mm ²	Ω/Km		GΩ.Km	MΩ.Km	pF/250 m	pF/m	µH/Ω	Volt / 1 minute	
1	0.5	36	36.7	5	1	250	115	25	1,000	
1	1.0	18.1	18.2	5	1	250	115	25	1,000	
2	1.5	12.1	12.2	5	1	250	115	40	1,000	
5	0.5	39	40.1	5	1	250	115	25	1,000	



CSEV ALCA

300/500 Volt

Single & multi pairs,
PE insulated, Overall shielded,
Corrugated armoured, PVC sheathed
BS 5308 - 1
0.51.5 mm²

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon the customer request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire .
Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyethylene (PE) type 03 to BS 6234.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Overall shielding** : Twisted pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC), Black colour.
- **Armouring** : Corrugated aluminium tape
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC), TM1 type to BS 6746, Black colour.
- **Cable marking** : SUPREME CABLE CSEV ALCA " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70°C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Overall shielded	Dia of corrugated armour	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		Tinned copper drain wire mm ²	mm	mm	Kg/km	m	mm
1	1	0.5	1/0.8	0.5	1.3	0.5	21	24	495	500	240
2	1	0.5	1/0.8	0.5	1.3	0.5	21	24	501	500	240
5	1	0.5	1/0.8	0.5	1.4	0.5	21	24	501	500	240
10	1	0.5	1/0.8	0.5	1.6	0.5	22	25.5	599	500	255
15	1	0.5	1/0.8	0.5	1.6	0.5	25	28.5	725	500	285
20	1	0.5	1/0.8	0.5	1.7	0.5	27	30.5	853	500	305
30	1	0.5	1/0.8	0.5	1.8	0.5	31	35	1,012	500	350
50	1	0.5	1/0.8	0.5	2.0	0.5	37	41.5	1,428	500	415
1	1	1.0	1/1.13	0.6	1.3	0.5	21	24	499	500	240
2	1	1.0	1/1.13	0.6	1.4	0.5	21	24	528	500	240
5	1	1.0	1/1.13	0.6	1.5	0.5	22	25	599	500	250
10	1	1.0	1/1.13	0.6	1.7	0.5	27	30.5	903	500	305
15	1	1.0	1/1.13	0.6	1.8	0.5	31	35	1,099	500	350
20	1	1.0	1/1.13	0.6	1.8	0.5	34	38	1,429	500	380
30	1	1.0	1/1.13	0.6	2.0	0.5	39	43	1,907	500	430
50	1	1.0	1/1.13	0.6	2.2	0.5	48	52.5	2,696	500	525
1	2	1.5	7/0.53	0.6	1.4	0.5	21	24	506	500	240
2	2	1.5	7/0.53	0.6	1.4	0.5	21	24	526	500	240
5	2	1.5	7/0.53	0.6	1.6	0.5	24	27.5	661	500	275
10	2	1.5	7/0.53	0.6	1.8	0.5	29	33	1,002	500	330
15	2	1.5	7/0.53	0.6	1.9	0.5	33	37	1,315	500	370
20	2	1.5	7/0.53	0.6	2.0	0.5	36	40.5	1,588	500	405
30	2	1.5	7/0.53	0.6	2.1	0.5	42	46.5	2,143	500	465
50	2	1.5	7/0.53	0.6	2.4	0.5	52	57	3,242	500	570
1	5	0.5	16/0.2	0.6	1.3	0.5	21	24	490	500	240
2	5	0.5	16/0.2	0.6	1.3	0.5	21	24	495	500	240
5	5	0.5	16/0.2	0.6	1.5	0.5	21	24	495	500	240
10	5	0.5	16/0.2	0.6	1.6	0.5	25	28.5	674	500	285
15	5	0.5	16/0.2	0.6	1.7	0.5	28	31.5	835	500	315
20	5	0.5	16/0.2	0.6	1.8	0.5	30	34	969	500	340
30	5	0.5	16/0.2	0.6	1.9	0.5	35	39	1,263	500	390
50	5	0.5	16/0.2	0.6	2.1	0.5	42	46.5	1,804	500	465

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor, max		Insulation min	Between conductors	Unbalance	Mutual		Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Ω/Km				GΩ.Km		
1	0.5	36	36.7	5	250	115	25	1,000		
1	1.0	18.1	18.2	5	250	115	25	1,000		
2	1.5	12.1	12.2	5	250	115	40	1,000		
5	0.5	39	40.1	5	250	115	25	1,000		



PSEV ALCA

300/500 Volt

Single & multi pairs, PE insulated,
Individual and overall shielded,
Corrugated armoured,
PVC sheathed
BS 5308 - 1
0.5 1.5 mm²

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon the customer request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire. Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyethylene (PE) type 03 to BS 6234.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Individual shielding** : Each pair is shielded with strand tinned annealed copper wire and aluminium foil tape to give a maximum protection against electrostatic noise and crosstalk interference.
- **Overall shielding** : All pairs shields are isolated from each other. Individually shielded pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- **Armouring** : Corrugated aluminium tape.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Orange colour.
- **Cable marking** : SUPREME CABLE PSEV ALCA " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**

DIMENSIONAL & MECHANICAL DATA

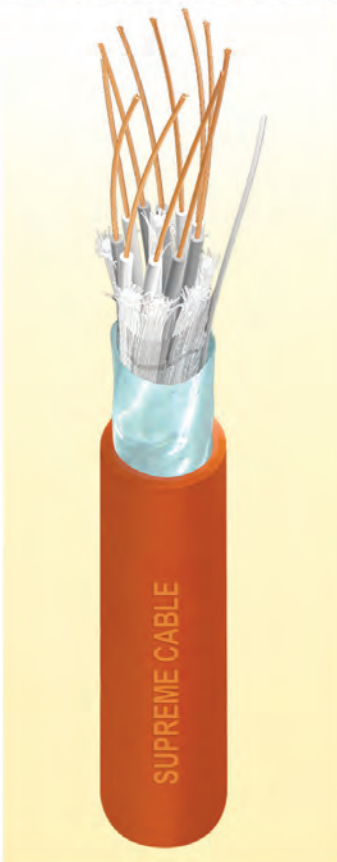
No of pairs	Class	CONDUCTOR		Nominal thickness		Ind. and overall shielded	Dia of corrugated armour	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	mm	Kg/km	m	mm
2	1	0.5	1/0.8	0.5	1.4	0.5	20	23	422	500	230
5	1	0.5	1/0.8	0.5	1.5	0.5	21	24.5	526	500	245
10	1	0.5	1/0.8	0.5	1.7	0.5	30	34	843	500	340
15	1	0.5	1/0.8	0.5	1.7	0.5	34	38	1,048	500	380
20	1	0.5	1/0.8	0.5	1.8	0.5	37	41	1,227	500	410
30	1	0.5	1/0.8	0.5	1.9	0.5	42.5	46.5	1,619	500	465
50	1	0.5	1/0.8	0.5	2.2	0.5	53	58	2,463	500	580
2	1	1.0	1/1.13	0.6	1.5	0.5	23	26.5	521	500	265
5	1	1.0	1/1.13	0.6	1.6	0.5	24	27.5	656	500	275
10	1	1.0	1/1.13	0.6	1.8	0.5	35	39	1,093	500	390
15	1	1.0	1/1.13	0.6	1.9	0.5	39	43	1,402	500	430
20	1	1.0	1/1.13	0.6	2.0	0.5	43	47.5	1,706	500	475
30	1	1.0	1/1.13	0.6	2.2	0.5	50	55	2,322	500	550
50	1	1.0	1/1.13	0.6	2.5	0.5	62.5	68	3,456	300	680
2	2	1.5	7/0.53	0.6	1.6	0.5	25	28.5	599	500	285
5	2	1.5	7/0.53	0.6	1.7	0.5	26	30	787	500	300
10	2	1.5	7/0.53	0.6	1.9	0.5	39	43	1,351	500	430
15	2	1.5	7/0.53	0.6	2.0	0.5	44	48	1,747	500	480
20	2	1.5	7/0.53	0.6	2.1	0.5	48	53.5	2,095	500	535
30	2	1.5	7/0.53	0.6	2.5	0.5	56	61.5	2,923	500	615
50	2	1.5	7/0.53	0.6	2.7	0.5	70	76	4,363	250	760
2	5	0.5	16/0.2	0.6	1.5	0.5	22	25.5	479	500	255
5	5	0.5	16/0.2	0.6	1.6	0.5	23	26.5	594	500	265
10	5	0.5	16/0.2	0.6	1.8	0.5	33	37	955	500	370
15	5	0.5	16/0.2	0.6	1.8	0.5	38	42	1,200	500	420
20	5	0.5	16/0.2	0.6	1.9	0.5	41	45	1,411	500	450
30	5	0.5	16/0.2	0.6	2.1	0.5	47	51.5	1,872	500	515
50	5	0.5	16/0.2	0.6	2.4	0.5	59	64	2,805	300	640

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation , min		Unbalance	Mutual		Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors	Between shields					
-	mm ²	Ω/Km		GΩ.Km	MΩ.Km	pF/250 m	pF/m	μH/Ω	Volt / 1 minute	
1	0.5	36	36.7	5	1	250	115	25	1,000	
1	1.0	18.1	18.2	5	1	250	115	25	1,000	
2	1.5	12.1	12.2	5	1	250	115	40	1,000	
5	0.5	39	40.1	5	1	250	115	25	1,000	

PVC insulation





CSVV

300/500 Volt

Single & multi pairs, PVC insulated,
Overall shielded, PVC sheathed
BS 5308 - 2
0.5 1.5 mm²

APPLICATION :

Suitable used in duct, cable tray or conduit for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire. Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyvinyl Chloride (PVC) type T1 to BS 7655.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Overall shielding** : Twisted pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Orange colour.
- **Cable marking** : SUPREME CABLE CSVV " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Overall shielded	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath		Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		Tinned copper drain wire	mm	Kg/km	m	mm
1	5	0.5	16/0.2	0.6	0.8	0.5	7.5	49	1,000	60
2	5	0.5	16/0.2	0.6	0.8	0.5	11	82	1,000	90
5	5	0.5	16/0.2	0.6	1.1	0.5	14	163	1,000	115
10	5	0.5	16/0.2	0.6	1.2	0.5	18	285	1,000	145
15	5	0.5	16/0.2	0.6	1.3	0.5	21.5	404	1,000	175
20	5	0.5	16/0.2	0.6	1.3	0.5	24.5	512	500	196
30	5	0.5	16/0.2	0.6	1.5	0.5	29	749	500	235
50	5	0.5	16/0.2	0.6	1.7	0.5	37	1,196	500	300
1	5	0.75	24/0.2	0.6	0.8	0.5	8	57	1,000	65
2	5	0.75	24/0.2	0.6	0.8	0.5	11.5	96	1,000	95
5	5	0.75	24/0.2	0.6	1.2	0.5	15	206	1,000	120
10	5	0.75	24/0.2	0.6	1.3	0.5	20	346	1,000	160
15	5	0.75	24/0.2	0.6	1.3	0.5	24	530	1,000	195
20	5	0.75	24/0.2	0.6	1.5	0.5	27	673	500	220
30	5	0.75	24/0.2	0.6	1.7	0.5	32.5	980	500	260
50	5	0.75	24/0.2	0.6	2.0	0.5	41	1,584	500	330
1	2	1.5	7/0.53	0.6	0.8	0.5	7	78	1,000	60
2	2	1.5	7/0.53	0.6	0.9	0.5	13	143	1,000	105
5	2	1.5	7/0.53	0.6	1.2	0.5	17	304	1,000	140
10	2	1.5	7/0.53	0.6	1.3	0.5	22.5	553	1,000	180
15	2	1.5	7/0.53	0.6	1.5	0.5	27	812	1,000	220
20	2	1.5	7/0.53	0.6	1.5	0.5	30.5	1,044	500	245
30	2	1.5	7/0.53	0.6	1.7	0.5	37	1,535	500	300
50	2	1.5	7/0.53	0.6	2.0	0.5	47	2,503	500	380

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation min	Between any core or shield	Mutual	Core to core		Core to shield	
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors				µH/Ω		Volt / 1 minute
-	mm ²	Ω/Km		MΩ.Km	pF/m		µH/Ω	Volt / 1 minute		
5	0.5	39	40.1	25	400	250	25	1,000		
5	0.75	26	26.7	25	400	250	25	1,000		
2	1.5	12.1	12.2	25	400	250	40	1,000		



CSVV-TCWB

300 Volt

Single & multi pairs,
PVC insulated, Overall shielded,
Tinned copper wire braiding,
PVC sheathed
BS EN 50288-7
0.51.5 mm²

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Overall shielded	Diameter of tinned copper wire braiding	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	mm	Kg/km	m	mm
1	2	0.5	7/0.3	0.4	0.9	0.5	6.3	8.5	94	500	70
2	2	0.5	7/0.3	0.4	1.0	0.5	10	12	172	500	100
5	2	0.5	7/0.3	0.4	1.1	0.5	12.4	15	255	500	120
1	2	0.75	7/0.37	0.4	0.9	0.5	6.8	9	118	500	75
2	2	0.75	7/0.37	0.4	1.1	0.5	10.8	13.5	201	500	110
1	2	1.5	7/0.53	0.5	1.0	0.5	8.2	10.5	159	500	85
2	2	1.5	7/0.53	0.5	1.1	0.5	13.6	16	279	500	130

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation min	Between any core or shield	Mutual	Core to core		Core to shield	
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors				µH/Ω		Volt / 1 minute
-	mm ²	Ω/Km		MΩ.Km	pF/m		µH/Ω	Volt / 1 minute		
5	0.5	39	40.1	10	400	250	25	1,000		
5	0.75	26	26.7	10	400	250	25	1,000		
2	1.5	12.1	12.2	10	400	250	40	1,000		

APPLICATION :

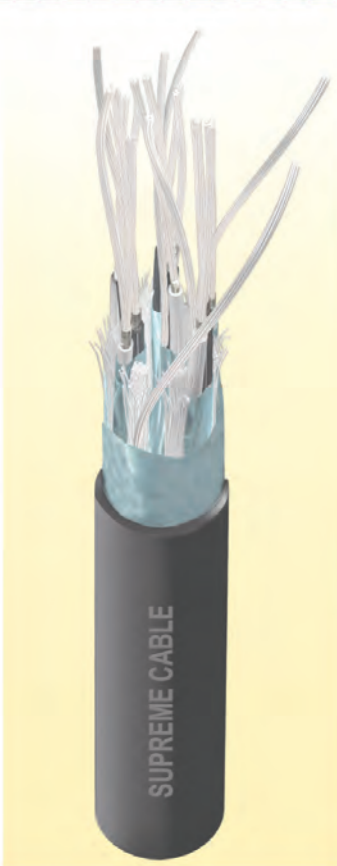
Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire .
Class 1, 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyvinyl Chloride (PVC) type T1 to BS 7655.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Overall shielding** : Twisted pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- **Braid shielding** : Tinned annealed copper wire to protect against electro magnetic noise.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Black colour.
- **Cable marking** : SUPREME CABLE CSVV-TCWB " SIZE " 300 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**



PSVV

300/500 Volt

Single & multi pairs, PVC insulated,
Individual and overall shielded,
PVC sheathed
BS 5308 - 2
0.51.5 mm²

APPLICATION :

Suitable used in duct, cable tray or conduit for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire .
Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyvinyl Chloride (PVC) type T1 to BS 7655.
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Individual shielding** : Each pair is shielded with strand tinned annealed copper wire and aluminium foil tape to give a maximum protection against electrostatic noise and crosstalk interference.
- **Overall shielding** : All pairs shields are isolated from each other. Individually shielded pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Black colour.
- **Cable marking** : SUPREME CABLE PSVV " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Ind. and overall shielded	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath		Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		Tinned copper drain wire	mm	Kg/km	m	mm
2	5	0.5	16/0.2	0.6	1.1	0.5	12.5	130	1,000	100
5	5	0.5	16/0.2	0.6	1.2	0.5	15	235	1,000	120
10	5	0.5	16/0.2	0.6	1.3	0.5	21	429	1,000	170
15	5	0.5	16/0.2	0.6	1.5	0.5	24.5	620	1,000	200
20	5	0.5	16/0.2	0.6	1.5	0.5	28	814	500	225
30	5	0.5	16/0.2	0.6	1.7	0.5	33.5	1,196	500	270
50	5	0.5	16/0.2	0.6	2.2	0.5	42.5	1,916	500	340
2	5	0.75	24/0.2	0.6	1.1	0.5	13.5	156	1,000	110
5	5	0.75	24/0.2	0.6	1.2	0.5	17.5	309	1,000	140
10	5	0.75	24/0.2	0.6	1.3	0.5	25	571	1,000	200
15	5	0.75	24/0.2	0.6	1.5	0.5	29	830	1,000	235
20	5	0.75	24/0.2	0.6	1.7	0.5	33	1,083	500	265
30	5	0.75	24/0.2	0.6	2.0	0.5	39.5	1,609	500	320
50	5	0.75	24/0.2	0.6	2.2	0.5	50.5	2,592	500	405
2	2	1.5	7/0.53	0.6	1.2	0.5	15.5	208	1,000	125
5	2	1.5	7/0.53	0.6	1.3	0.5	20	419	1,000	160
10	2	1.5	7/00.53	0.6	1.5	0.5	28.5	730	1,000	230
15	2	1.5	7/0.53	0.6	1.7	0.5	33	1,151	1,000	265
20	2	1.5	7/0.53	0.6	1.7	0.5	37	1,480	500	300
30	2	1.5	7/0.53	0.6	2.0	0.5	44.5	2,187	500	360
50	2	1.5	7/0.53	0.6	2.2	0.5	57	3,543	500	460

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C						Max. capacitance at 1 kHz	Max. L/R ratio	AC voltage test	
		Conductor, max		Insulation, min		Between any core or shield	Mutual			Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors	Between shields			µH/Ω	Volt / 1 minute		
-	mm ²	Ω/Km		MΩ.Km		pF/m		µH/Ω	Volt / 1 minute		
5	0.5	39	40.1	25	1	400	250	25	1,000		
5	0.75	26	26.7	25	1	400	250	25	1,000		
2	1.5	12.1	12.2	25	1	400	250	40	1,000		



PSVV-TCWB

300 Volt

Single & multi pairs, PVC insulated,
Individual and overall shielded,
Tinned copper wire braiding, PVC sheathed
BS EN 50288-7
0.5 1.5 mm²

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Ind. and overall shielded	Diameter of tinned copper wire braiding	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	mm	Kg/km	m	mm
2	2	0.5	7/0.30	0.4	1.1	0.5	9.7	11.9	193	500	95
5	2	0.5	7/0.30	0.4	1.2	0.5	12	14.4	297	500	115
2	2	0.75	7/0.37	0.4	1.1	0.5	10.4	12.6	216	500	100
2	2	1.5	7/0.53	0.5	1.2	0.5	12.9	15.3	299	500	125

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation , min		Between any core or shield	Mutual		Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors	Between shields					
-	mm ²	Ω/Km		MΩ.Km		pF/m		μH/Ω	Volt / 1 minute	
5	0.5	39	40.1	10	1	400	250	25	1,000	
5	0.75	26	26.7	10	1	400	250	25	1,000	
2	1.5	12.1	12.2	10	1	400	250	40	1,000	

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire. Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyvinyl Chloride (PVC) type T1 to BS 7655
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Individual shielding** : Each pair is shielded with strand tinned annealed copper wire and aluminium foil tape to give a maximum protection against electrostatic noise and crosstalk interference.
- **Overall shielding** : All pairs shields are isolated from each other. Individually shielded pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- **Braid shielding** : Tinned annealed copper wire to protect against electromagnetic noise.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Black colour.
- **Cable marking** : SUPREME CABLE PSVV-TCWB " SIZE " 300 V INSTRUMENTATION CABLE with interval length marking every (one) meter.
- **Operating temperature maximum 70 °C**



MSVV

300/500 Volt

Multicores, PVC insulated,
Overall shielded, PVC sheathed
BS 5308 - 2
0.5 1.5 mm²

APPLICATION :

Suitable used in duct, cable tray or conduit for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire .
Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyvinyl Chloride (PVC) type T1 to BS 7655.
- **Identification of cores** : Black with white number printing on insulation.
- **Cores lay-up** : All cores are concentrically laid-up to counter electro magnetic noise.
- **Overall shielding** : Multicores are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Black colour.
- **Cable marking** : SUPREME CABLE MSVV " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**

DIMENSIONAL & MECHANICAL DATA

No of cores	Class	CONDUCTOR		Nominal thickness		Overall shielded Tinned copper drain wire	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath		Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	Kg/km	m	mm
2	5	0.5	16/0.2	0.6	0.8	0.5	7.5	49	1,000	60
3	5	0.5	16/0.2	0.6	0.8	0.5	8	59	1,000	65
4	5	0.5	16/0.2	0.6	0.8	0.5	8.5	71	1,000	70
6	5	0.5	16/0.2	0.6	0.9	0.5	10	99	1,000	80
10	5	0.5	16/0.2	0.6	1.1	0.5	12.5	156	1,000	100
20	5	0.5	16/0.2	0.6	1.2	0.5	15.5	270	500	125
40	5	0.5	16/0.2	0.6	1.3	0.5	20.5	487	500	165
2	5	0.75	24/0.2	0.6	0.8	0.5	8	57	1,000	65
3	5	0.75	24/0.2	0.6	0.8	0.5	8.5	69	1,000	70
4	5	0.75	24/0.2	0.6	0.8	0.5	9	86	1,000	75
6	5	0.75	24/0.2	0.6	0.9	0.5	10.5	121	1,000	85
10	5	0.75	24/0.2	0.6	1.1	0.5	13.5	192	1,000	110
20	5	0.75	24/0.2	0.6	1.2	0.5	17	339	500	140
40	5	0.75	24/0.2	0.6	1.3	0.5	22	620	500	180
2	2	1.5	7/0.53	0.6	0.8	0.5	9	78	1,000	75
3	2	1.5	7/0.53	0.6	0.9	0.5	9.5	105	1,000	80
4	2	1.5	7/0.53	0.6	0.9	0.5	10	129	1,000	80
6	2	1.5	7/0.53	0.6	1.1	0.5	12.5	189	1,000	100
10	2	1.5	7/0.53	0.6	1.2	0.5	15	294	1,000	120
~	2	1.5	7/0.53	0.6	1.3	0.5	19	533	500	155
40	2	1.5	7/0.53	0.6	1.5	0.5	25	1,007	500	200

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation min	Between any core or shield		Core to core		Core to shield	
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors	Mutual					
-	mm ²	Ω/Km		MΩ.Km	pF/m		μH/Ω	Volt / 1 minute		
5	0.5	39	40.1	25	400	250	250	1,000		
5	0.75	26	26.7	25	400	250	250	1,000		
2	1.5	12.1	12.2	25	400	250	40	1,000		



CSVV-SWA

300/500 Volt

Single & multi pairs, PVC insulated,
Overall shielded, Armoured, PVC sheathed
BS 5308 - 2
0.51.5 mm²

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire .
Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyvinyl Chloride (PVC) type T1 to BS 7655
- **Pairs colour code** : Black, White with number printing on insulation.
- **Triads colour code** : Black, White, Red with number printing on insulation.
- **Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- **Overall shielding** : Twisted pairs are assembled with non-hygrosopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- **Armouring** : Galvanized round steel wire.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746 , Black colour.
- **Cable marking** : SUPREME CABLE CSVV-SWA " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70°C**

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Overall shielded Tinned copper drain wire	Dia of armour wire	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	mm	Kg/km	m	mm
1	5	0.5	16/0.2	0.6	1.3	0.5	0.9	12	239	1,000	120
2	5	0.5	16/0.2	0.6	1.3	0.5	0.9	15.5	358	1,000	155
5	5	0.5	16/0.2	0.6	1.5	0.5	0.9	19.5	626	1,000	195
10	5	0.5	16/0.2	0.6	1.6	0.5	1.25	25	1,025	1,000	250
15	5	0.5	16/0.2	0.6	1.7	0.5	1.6	28.5	1,286	1,000	285
20	5	0.5	16/0.2	0.6	1.8	0.5	1.6	31.5	1,513	500	315
30	5	0.5	16/0.2	0.6	1.9	0.5	1.6	36.5	1,963	500	365
50	5	0.5	16/0.2	0.6	2.1	0.5	2	45	3,029	500	450
1	5	0.75	24/0.2	0.6	1.3	0.5	0.9	12.5	256	1,000	125
2	5	0.75	24/0.2	0.6	1.4	0.5	0.9	17	403	1,000	170
5	5	0.75	24/0.2	0.6	1.5	0.5	1.25	21	711	1,000	210
10	5	0.75	24/0.2	0.6	1.7	0.5	1.6	27	1,183	1,000	270
15	5	0.75	24/0.2	0.6	1.8	0.5	1.6	31	1,515	1,000	310
20	5	0.75	24/0.2	0.6	1.8	0.5	1.6	34	1,785	500	340
30	5	0.75	24/0.2	0.6	2.0	0.5	2	40.5	2,596	500	405
50	5	0.75	24/0.2	0.6	2.3	0.5	2.5	50.5	4,106	500	505
1	2	1.5	7/0.53	0.6	1.4	0.5	0.9	13.5	303	1,000	135
2	2	1.5	7/0.53	0.6	1.4	0.5	0.9	18	474	1,000	180
5	2	1.5	7/0.53	0.6	1.6	0.5	1.25	23	871	1,000	230
10	2	1.5	7/0.53	0.6	1.8	0.5	1.6	29.5	1,489	1,000	295
15	2	1.5	7/0.53	0.6	1.9	0.5	1.6	34.5	1,941	1,000	345
20	2	1.5	7/0.53	0.6	2.0	0.5	1.6	38	2,317	500	380
30	2	1.5	7/0.53	0.6	2.1	0.5	2	45	3,368	500	450
50	2	1.5	7/0.53	0.6	2.4	0.5	2.5	57	5,356	500	570

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation min	Between any core or shield		Core to core		Core to shield	
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors	Between any core or shield	Mutual		µH/Ω		Volt / 1 minute
-	mm ²	Ω/Km		MΩ.Km	pF/m		µH/Ω	Volt / 1 minute		
5	0.5	39	40.1	25	400	250	25	1,000		
5	0.75	26	26.7	25	400	250	25	1,000		
2	1.5	12.1	12.2	25	400	250	40	1,000		



PSVV-SWA

300/500 Volt

Single & multi pairs, PVC insulated,
Individual and overall shielded,
Armoured, PVC sheathed
BS 5308 - 2
0.5 1.5 mm²

DIMENSIONAL & MECHANICAL DATA

No of pairs	Class	CONDUCTOR		Nominal thickness		Ind. and overall shielded	Dia of armour wire	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	mm	Kg/km	m	mm
2	5	0.5	16/0.2	0.6	1.7	0.5	0.9	20.5	526	1,000	205
5	5	0.5	16/0.2	0.6	1.7	0.5	1.25	24.5	905	1,000	245
10	5	0.5	16/0.2	0.6	1.8	0.5	1.6	34.5	1,545	1,000	345
15	5	0.5	16/0.2	0.6	1.8	0.5	1.6	38.5	1,909	500	385
20	5	0.5	16/0.2	0.6	1.9	0.5	1.6	42.5	2,221	500	425
30	5	0.5	16/0.2	0.6	2.1	0.5	2	50.5	3,198	500	505
50	5	0.5	16/0.2	0.6	2.4	0.5	2.5	64.5	5,194	300	645
2	5	0.75	24/0.2	0.6	1.5	0.5	0.9	21.5	575	1,000	215
5	5	0.75	24/0.2	0.6	1.6	0.5	1.25	29	977	1,000	290
10	5	0.75	24/0.2	0.6	1.8	0.5	1.6	38.5	1,711	1,000	385
15	5	0.75	24/0.2	0.6	1.9	0.5	1.6	38.5	1,909	500	385
20	5	0.75	24/0.2	0.6	2	0.5	2	46.5	2,853	500	465
30	5	0.75	24/0.2	0.6	2.2	0.5	2	54.5	3,720	500	545
50	5	0.75	24/0.2	0.6	2.5	0.5	2.5	59	5,865	300	590
2	2	1.5	7/0.53	0.6	1.6	0.5	1.25	23	812	1,000	230
5	2	1.5	7/0.53	0.6	1.7	0.5	1.6	30	1,334	1,000	300
10	2	1.5	7/0.53	0.6	1.9	0.5	1.6	40	2,092	500	400
15	2	1.5	7/0.53	0.6	2	0.5	2	46.5	2,948	500	465
20	2	1.5	7/0.53	0.6	2.1	0.5	2	51	3,462	500	510
30	2	1.5	7/0.53	0.6	2.4	0.5	2.5	61	5,108	500	610
50	2	1.5	7/0.53	0.6	2.7	0.5	2.5	76	7,225	300	760

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor, max		Insulation, min		Between any core or shield	Mutual		Core to core	Core to shield
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors	Between shields			µF/m		
-	mm ²	Ω/Km		MΩ.Km		pF/m		µH/Ω	Volt / 1 minute	
5	0.5	39	40.1	25	1	7	250	25	1,000	
5	0.75	26	26.7	25	1	7	250	25	1,000	
2	1.5	12.1	12.2	25	1	7	250	40	1,000	

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- Conductor** : Plain or tinned annealed copper wire .
Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- Insulation** : Polyvinyl Chloride (PVC) type T1 to BS 7655
- Pairs colour code** : Black, White with number printing on insulation.
- Triads colour code** : Black, White, Red with number printing on insulation.
- Pairs twisting** : All pairs are twisted to counter electromagnetic noise.
- Individual shielding** : Each pair is shielded with strand tinned annealed copper wire and aluminium foil tape to give a maximum protection against electrostatic noise and cross talk interference.
- Overall shielding** : All pairs shields are isolated from each other. Individually shielded pairs are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- Armouring** : Galvanized round steel wire.
- Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746, Blue colour.
- Cable marking** : SUPREME CABLE PSVV-SWA " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- Operating temperature maximum 70 °C**



MSVV-SWA

300/500 Volt

Multicores, PVC insulated, Overall shielded,
Armoured, PVC sheathed
BS 5308 - 2
0.5 1.5 mm²

APPLICATION :

Suitable used in direct buried for control, communication, data (analog/digital) and voice transmission signals and service typically in industrial project, petroleum or oil and gas industry.

OPTIONAL :

Other construction such as FIRE RESISTANT INSTRUMENTATION CABLE with low smoke zero halogen (LSOH) features and other types are available upon request.

CONSTRUCTION :

- **Conductor** : Plain or tinned annealed copper wire .
Class 1 , 2 or 5 based on IEC 60228 or BS 6360.
- **Insulation** : Polyvinyl Chloride (PVC) type T1 to BS 7655.
- **Identification of cores** : Black with white number printing on insulation.
- **Cores lay-up** : All cores are concentrically laid-up to counter electro magnetic noise.
- **Overall shielding** : Multicores are assembled with non-hygroscopic fillers (if necessary) and entire assembly is covered by polyester tape and shielded with strand tinned annealed copper wire and aluminium foil tape.
- **Inner sheath** : Extruded Polyvinyl Chloride (PVC) , Black colour.
- **Armouring** : Galvanized round steel wire.
- **Outer sheath** : Extruded Polyvinyl Chloride (PVC) , TM1 type to BS 6746 , Black colour.
- **Cable marking** : SUPREME CABLE MSVV-SWA " SIZE " 300/500 V INSTRUMENTATION CABLE with interval length marking every 1 (one) meter.
- **Operating temperature maximum 70 °C**

DIMENSIONAL & MECHANICAL DATA

No of cores	Class	CONDUCTOR		Nominal thickness		Overall shielded	Dia of armour wire	Approximately		Standard delivery length	Bending radius, min
		Nominal cross-sectional area	No/Dia of wire	Insulation	Outer sheath			Overall diameter	Cable Weight		
-	-	mm ²	pcs/mm	mm		mm ²	mm	mm	Kg/km	m	mm
2	5	0.5	16/0.2	0.6	1.3	0.5	0.9	12	239	1,000	120
3	5	0.5	16/0.2	0.6	1.3	0.5	0.9	12.5	257	1,000	125
4	5	0.5	16/0.2	0.6	1.3	0.5	0.9	13	283	1,000	130
6	5	0.5	16/0.2	0.6	1.4	0.5	0.9	14.5	352	1,000	145
10	5	0.5	16/0.2	0.6	1.5	0.5	0.9	17.5	477	1,000	175
20	5	0.5	16/0.2	0.6	1.6	0.5	1.25	21.5	790	500	215
40	5	0.5	16/0.2	0.6	1.7	0.5	1.6	27	1,296	500	270
2	5	0.75	24/0.2	0.6	1.3	0.5	0.9	12.5	255	500	125
3	5	0.75	24/0.2	0.6	1.3	0.5	0.9	13	282	1,000	130
4	5	0.75	24/0.2	0.6	1.4	0.5	0.9	14	318	1,000	140
6	5	0.75	24/0.2	0.6	1.4	0.5	0.9	15.5	396	1,000	155
10	5	0.75	24/0.2	0.6	1.5	0.5	0.9	18.5	545	1,000	185
20	5	0.75	24/0.2	0.6	1.6	0.5	1.25	23	927	500	230
40	5	0.75	24/0.2	0.6	1.8	0.5	1.6	29.5	1,534	500	295
2	2	1.5	7/0.53	0.6	1.4	0.5	0.9	13.5	302	1,000	135
3	2	1.5	7/0.53	0.6	1.4	0.5	0.9	14.5	351	1,000	145
4	2	1.5	7/0.53	0.6	1.4	0.5	0.9	15	390	1,000	150
6	2	1.5	7/0.53	0.6	1.4	0.5	0.9	17	503	1,000	170
10	2	1.5	7/0.53	0.6	1.6	0.5	1.25	21.5	907	500	215
20	2	1.5	7/0.53	0.6	1.7	0.5	1.6	26	1,316	500	260
40	2	1.5	7/0.53	0.6	1.9	0.5	1.6	32.5	2,068	500	325

ELECTRICAL DATA

Class	Cable size	Resistance at 20 °C				Max. capacitance at 1 kHz		Max. L/R ratio	AC voltage test	
		Conductor , max		Insulation min	Between any core or shield	Mutual	Core to core		Core to shield	
		Plain annealed copper wire	Annealed tinned copper wire	Between conductors				µH/Ω		Volt / 1 minute
-	mm ²	Ω/Km		MΩ.Km	pF/m		µH/Ω	Volt / 1 minute		
5	0.5	39	40.1	25	400	250	25	1,000		
5	0.75	26	26.7	25	400	250	25	1,000		
2	1.5	12.1	12.2	25	400	250	40	1,000		