



## Instrumentation Cables

1	Conductor	Plain Annealed Copper
2	Fire Barrier	Mica Tape
3	Insulation	PVC / PE / XLPE
4	Individual Screen	Aluminium Foil
5	Drain Wire	Tinned Copper Wire 0.5mm <sup>2</sup>
6	Overall Screen	Aluminium Foil
7	Bedding	PVC / LSZH*
8	Armouring	Galvanized Steel Wire
9	Oversheath	PVC / LSZH*

\* LSZH: Low Smoke Zero Halogen

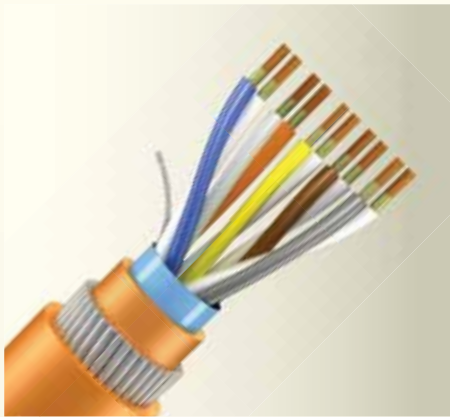
# Instrumentation Cables

Fire Resistant Instrumentation Cable  
OS, Unarmoured & Armoured Cable

CU/MICA/XLPE/IS OS/LSZH or CU/MICA/XLPE/IS OS/LSZH/SWA/LSZH



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Application :	This cable is used as control, instrumentation and telecommunication means in power stations, mass transit underground passenger systems, airports, hotels, hospitals, and high-rise buildings.
Voltage Rating :	300/500V
Construction :	Plain annealed, stranded circular non-compacted copper, mica tape, XLPE/XLEVA insulation, layer of polyester tape, aluminum foil, tinned drain wire, unarmoured or steel wire armoured, LSZH compound sheath
Insulation Colour :	Pair : White/Black insulation printed with numbers Triple : White/Black/Red insulation printed with numbers
Sheath Colour :	Black or Orange
Specification :	BS5308,IEC60331,IEC60332,IEC60754,IEC61034

Number of Pairs / Triple	Conductor		Insulation Thickness	Unarmoured Cable		Armoured Cable	
	Nominal Area	No./Dia. of Strand		Approx. Overall Dia	Approx. Weight	Approx. Overall Dia	Approx. Weight
	mm <sup>2</sup>	No. / mm	mm	mm	Kg / Km	mm	mm
1 Pair	0.75	7 / 0.37	0.5	8.5	60	13.5	290
	1.0	7 / 0.43	0.6	9.2	80	14.0	300
	1.5	7 / 0.53	0.6	10.0	100	15.0	340
	2.5	7 / 0.67	0.6	10.5	165	15.5	440
1 Triple	0.75	7 / 0.37	0.5	9.3	80	14.0	290
	1.0	7 / 0.43	0.6	10.3	100	14.5	330
	1.5	7 / 0.53	0.6	10.8	120	15.5	380
	2.5	7 / 0.67	0.6	11.8	160	16.5	430
2 Pairs	0.75	7 / 0.37	0.5	13.2	120	18.0	450
	1.0	7 / 0.43	0.6	15.0	160	20.0	540
	1.5	7 / 0.53	0.6	16.0	200	21.0	610
	2.5	7 / 0.67	0.6	17.5	250	22.5	700
4 Pairs	0.75	7 / 0.37	0.5	15.5	210	20.5	600
	1.0	7 / 0.43	0.6	17.0	260	23.0	820
	1.5	7 / 0.53	0.6	19.0	360	25.0	960
	2.5	7 / 0.67	0.6	20.5	410	26.0	1080

For technical specification please refer to Table 20 (Page 59)

## Instrumentation Cables

PVC Instrumentation Cable  
OS, Unarmoured & Armoured Cable  
CU/PVC/OS/PVC or CU/PVC/OS/PVC/SWA/PVC



Application :	This cable is used in machines, measuring instruments, and control systems for the transmission of analogue and digit signals.
Voltage rating :	300/500V
Construction :	Plain annealed copper, PVC insulation, layer of polyester tape, aluminum foil, tinned drain wire, unarmoured or steel wire armoured, PVC compound sheath
Colour :	White/Black insulation printed with numbers
Specification :	BS5308 Part2

No of Pairs	Conductor		Insulation Thickness	Unarmoured Cable		Armoured Cable	
	Nominal Area	No./Dia. of Strand		Approx. Overall Dia	Approx Weight	Approx. Overall Dia	Approx Weight
	mm <sup>2</sup>	No./mm	mm	mm	kg/km	mm	kg/km
1	0.5	16 / 0.2	0.6	7.0	60	11.5	250
5	0.5	16 / 0.2	0.6	13.0	190	18.0	540
10	0.5	16 / 0.2	0.6	17.0	310	23.0	900
15	0.5	16 / 0.2	0.6	20.0	430	26.0	1270
20	0.5	16 / 0.2	0.6	22.0	540	29.0	1500
30	0.5	16 / 0.2	0.6	27.0	780	34.0	1960
1	0.75	24 / 0.2	0.6	7.5	70	12.0	260
5	0.75	24 / 0.2	0.6	14.5	230	20.0	700
10	0.75	24 / 0.2	0.6	18.5	390	25.5	1150
15	0.75	24 / 0.2	0.6	21.5	530	28.5	1450
20	0.75	24 / 0.2	0.6	24.5	690	31.5	1750
30	0.75	24 / 0.2	0.6	29.5	1000	37.5	2550
1	1.5	7 / 0.53	0.6	8.3	90	13.0	310
5	1.5	7 / 0.53	0.6	16.5	330	22.0	900
10	1.5	7 / 0.53	0.6	21.5	580	28.0	1500
15	1.5	7 / 0.53	0.6	25.0	850	32.0	1950
20	1.5	7 / 0.53	0.6	28.5	1100	35.0	2350
30	1.5	7 / 0.53	0.6	34.5	1600	42.0	3400

For technical specification please refer to Table 20 (Page 59)

# Instrumentation Cables

PVC Instrumentation Cable  
IS/OS, Unarmoured & Armoured Cable  
CU/PVC/IS OS/PVC or CU/PVC/IS OS/PVC/SWA/PVC



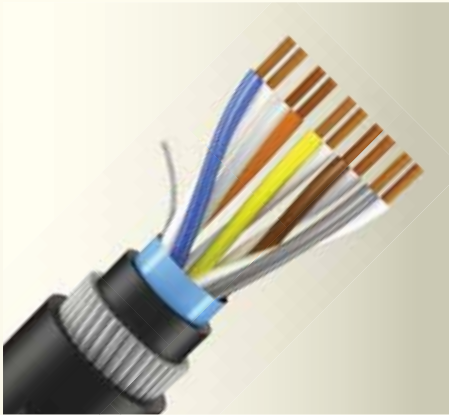
Application :	This cable is used in machines, measuring instruments, and control systems for the transmission of analogue and digit signals.
Voltage rating :	300/500V
Construction :	Plain annealed copper, PVC insulation, layer of polyester tape, aluminum foil, tinned drain wire, unarmoured or steel wire armoured, PVC compound sheath
Colour :	White/Black insulation printed with numbers
Specification :	BS5308 Part2

No of Pairs	Conductor		Insulation Thickness	Unarmoured Cable		Armoured Cable	
	Nominal Area	No./Dia of Strand		Approx. Overall Dia	Approx Weight	Approx. Overall Dia	Approx Weight
	mm <sup>2</sup>	No./mm	mm	mm	kg/km	mm	kg/km
2	0.5	16 / 0.2	0.6	12.0	135	17.0	470
5	0.5	16 / 0.2	0.6	15.0	240	21.0	770
10	0.5	16 / 0.2	0.6	21.0	410	28.0	1320
15	0.5	16 / 0.2	0.6	24.5	600	31.5	1640
20	0.5	16 / 0.2	0.6	27.5	750	34.5	1900
30	0.5	16 / 0.2	0.6	32.5	1100	40.5	2750
2	0.75	24 / 0.2	0.6	13.0	200	17.5	500
5	0.75	24 / 0.2	0.6	16.5	275	22.0	850
10	0.75	24 / 0.2	0.6	22.5	480	29.5	1450
15	0.75	24 / 0.2	0.6	26.5	700	33.5	1830
20	0.75	24 / 0.2	0.6	30.0	900	38.0	2450
30	0.75	24 / 0.2	0.6	35.5	1300	44.0	3200
2	1.5	7 / 0.53	0.6	14.0	220	20.5	730
5	1.5	7 / 0.53	0.6	19.0	400	25.5	1200
10	1.5	7 / 0.53	0.6	26.5	740	33.5	1860
15	1.5	7 / 0.53	0.6	31.0	1050	39.0	2660
20	1.5	7 / 0.53	0.6	34.5	1350	43.0	3100
30	1.5	7 / 0.53	0.6	41.0	2000	51.0	4550

For technical specification please refer to Table 20 (Page 59)

## Instrumentation Cables

PE Instrumentation Cable  
OS, Unarmoured & Armoured Cable  
CU/PE/OS/PVC or CU/PE/OS/PE/SWA/PVC



Application :	This cable is used in machines, measuring instruments, and control systems for the transmission of analogue and digit signals.
Voltage rating :	300/500V
Construction :	Plain annealed copper, PE insulation, layer of polyester tape, aluminum foil, tinned drain wire, unarmoured or steel wire armoured, PVC compound sheath
Colour :	White/Black insulation printed with numbers
Specification :	BS5308 Part1

No of Pairs	Conductor		Insulation Thickness	Unarmoured Cable		Armoured Cable	
	Nominal Area	No./Dia. of Strand		Approx. Overall Dia	Approx Weight	Approx. Overall Dia	Approx Weight
	mm <sup>2</sup>	No./mm	mm	mm	kg/km	mm	kg/km
1	0.5	16 / 0.2	0.6	6.8	54	11.2	230
5	0.5	16 / 0.2	0.6	12.8	195	17.6	535
10	0.5	16 / 0.2	0.6	16.9	305	22.6	885
15	0.5	16 / 0.2	0.6	19.3	400	26.1	1245
20	0.5	16 / 0.2	0.6	21.6	530	28.4	1505
30	0.5	16 / 0.2	0.6	26.2	745	33.2	1875
1	0.75	24 / 0.2	0.6	7.1	69	11.5	256
5	0.75	24 / 0.2	0.6	13.9	255	19.5	738
10	0.75	24 / 0.2	0.6	18.4	414	24.7	1158
15	0.75	24 / 0.2	0.6	21.0	565	27.8	1442
20	0.75	24 / 0.2	0.6	23.7	760	30.5	1789
30	0.75	24 / 0.2	0.6	28.6	1006	36.3	2232
1	1.5	7 / 0.53	0.6	8.1	92	12.7	305
5	1.5	7 / 0.53	0.6	16.1	347	21.8	907
10	1.5	7 / 0.53	0.6	21.4	605	28.2	1280
15	1.5	7 / 0.53	0.6	24.9	816	31.9	1800
20	1.5	7 / 0.53	0.6	27.8	1117	35.0	2264
30	1.5	7 / 0.53	0.6	33.7	1566	41.8	3089

For technical specification please refer to Table 20 (Page 59)

# Instrumentation Cables

PE Instrumentation Cable  
IS/OS, Unarmoured & Armoured Cable  
CU/PE/IS OS/PVC or CU/PE/IS OS/PE/SWA/PVC



Application :	This cable is used in machines, measuring instruments, and control systems for the transmission of analogue and digit signals.
Voltage rating :	300/500V
Construction :	Plain annealed copper, PE insulation, layer of polyester tape, aluminum foil, tinned drain wire, unarmoured or steel wire armoured, PVC compound sheath
Colour :	White/Black insulation printed with numbers
Specification :	BS5308 Part1

No of Pairs	Conductor		Insulation Thickness	Unarmoured Cable		Armoured Cable	
	Nominal Area	No./Dia of Strand		Approx. Overall Dia	Approx Weight	Approx. Overall Dia	Approx Weight
	mm <sup>2</sup>	No./mm	mm	mm	kg/km	mm	kg/km
2	0.5	16 / 0.2	0.6	11.7	128	16.2	412
5	0.5	16 / 0.2	0.6	14.9	245	20.5	735
10	0.5	16 / 0.2	0.6	20.4	411	26.8	1203
15	0.5	16 / 0.2	0.6	23.3	533	29.6	1249
20	0.5	16 / 0.2	0.6	26.0	710	32.5	1762
30	0.5	16 / 0.2	0.6	31.2	986	38.2	2420
2	0.75	24 / 0.2	0.6	12.4	157	17.1	453
5	0.75	24 / 0.2	0.6	15.9	278	21.5	885
10	0.75	24 / 0.2	0.6	21.6	492	28.4	1379
15	0.75	24 / 0.2	0.6	24.7	684	32.7	1604
20	0.75	24 / 0.2	0.6	27.8	896	36.1	2318
30	0.75	24 / 0.2	0.6	33.3	1262	41.5	2832
2	1.5	7 / 0.53	0.6	14.5	206	20.1	652
5	1.5	7 / 0.53	0.6	18.3	407	24.9	1142
10	1.5	7 / 0.53	0.6	25.9	696	32.8	1696
15	1.5	7 / 0.53	0.6	30.2	949	38.1	2237
20	1.5	7 / 0.53	0.6	33.5	1262	41.4	2284
30	1.5	7 / 0.53	0.6	40.2	1818	50.2	3875

For technical specification please refer to Table 20 (Page 59)