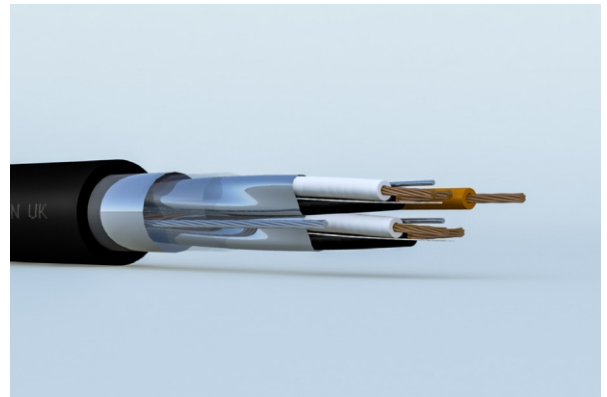


# INSTRUMENTATION CABLE BS 5308 PART-2

BS 5308 Cables are used to carry voice and data services, interconnection between electrical equipment and instruments, particularly in and around process plants where transducer generated signals are transmitted through panels, controllers and other devices.



## CABLE CONSTRUCTION

### Conductor

Class 1, 2 or 5 Plain Copper Conductors  
BS EN60228:2005

### Insulation

PVC (Polyvinyl Chloride)

### Twisted Pair

Two insulated wires are twisted to form a Pair with a lay not exceeding 100 mm

### Pair Identification

BS 5308 Colour Code

### Screen

Individually Screened Pairs:Al-Polyester Tape Foil is applied to each pair, metallic side down and in continuous contact with a 0.5 mm<sup>2</sup> tinned copper drain wire.

Collectively Screened Pairs:Al-Polyester Tape Foil is applied over the laid up pairs, metallic side down and in continuous contact with a 0.5 mm<sup>2</sup> tinned copper drain wire.

### Drain Wire

Tinned Copper

### Bedding

(applied only for Type 2)  
PVC (Polyvinyl Chloride) to BS 7655

### Armour

(applied only for Type 2)  
GSA (Galvanized Steel Wire Armour) to BS 1442

### Outer Sheath

PVC (Polyvinyl Chloride) to BS 7655

### Sheath Color

Blue or Black

### Standard Packing Mode

Cut of Length / Wooden Reel

## ELECTRICAL CHARACTERISTICS

Nom. Cross Sectional Area (Nom. Number and Nom. Diameter of Strands)	mm <sup>2</sup> (#/m)	0.5 (16/0.2)	0.75 (24/0.2)	1.0 (1/1.13)	1.5 (7/0.53)
Capacitance at 1 kHz cables with only Collective Screen (except one pair and two pair)	pF/m	250	250	250	250
Capacitance at 1 kHz one pair and two pair cables collectively screened and all cables with individually screened pairs	pF/m	450	450	450	450
Max. Conductor Resistance @ 20 °C	Ω/km	39.0	24.5	18.1	12.1
L/R Ratio Maximum Value	μH/Ω	25	25	25	40

\*0.75 mm<sup>2</sup> conductor generally to BS 5308

### ▷ Temperature Range

-20 °C to +90 °C

### ▷ Voltage Rating

300/500 V

### ▷ Test Voltage

1000V between conductor to conductor and conductor to screen

BS 5308 Part 2 Type 1: PVC Insulation/Al-Polyester Screen/Unarmoured

BS 5308 Part 2 Type 2: PVC Insulation/Al-Polyester Screen/Armoured

# INSTRUMENTATION CABLE BS 5308 PART-2

## ORDERING INFORMATION

### ▷ BS 5308 Part 2 Type 1: PVC Insulation/Collective Screen/Unarmoured

Part Number	No. of Pairs x Nom. CSA n x mm <sup>2</sup>	Nom. No. and Nom. Dia. n x mm	Nom. Overall Diameter mm	Nom. Weight kg/km
73-110051101X	1 x 0.5	16/0.2	7.0	70
73-110051102X	2 x 0.5	16/0.2	7.9	95
73-110051105X	5 x 0.5	16/0.2	13.1	240
73-110051110X	10 x 0.5	16/0.2	17.2	400
73-110051130X	30 x 0.5	16/0.2	26.9	930
73-110051201X	1 x 0.75	24/0.2	7.3	87
73-110051202X	2 x 0.75	24/0.2	8.3	118
73-110051205X	5 x 0.75	24/0.2	14.3	286
73-110051210X	10 x 0.75	24/0.2	18.7	522
73-110051230X	30 x 0.75	24/0.2	29.5	1160
73-110021301X	1 x 1.0	7/0.43	7.4	98
73-110021302X	2 x 1.0	7/0.43	8.4	125
73-110021305X	5 x 1.0	7/0.43	14.2	330
73-110021310X	10 x 1.0	7/0.43	18.4	580
73-110021330X	30 x 1.0	7/0.43	29.0	1220
73-110021401X	1 x 1.5	7/0.53	8.3	115
73-110021402X	2 x 1.5	7/0.53	9.7	170
73-110021405X	5 x 1.5	7/0.53	16.4	400
73-110021410X	10 x 1.5	7/0.53	21.6	775
73-110021430X	30 x 1.5	7/0.53	34.3	1770

### ▷ BS 5308 Part 2 Type 1: PVC Insulation/Individual and Collective Screen/Unarmoured

Part Number	No. of Pairs x Nom. CSA n x mm <sup>2</sup>	Nom. No. and Nom. Dia. n x mm	Nom. Overall Diameter mm	Nom. Weight kg/km
73-210051101X	1 x 0.5	16/0.2	-	-
73-210051102X	2 x 0.5	16/0.2	12.0	130
73-210051105X	5 x 0.5	16/0.2	15.2	300
73-210051110X	10 x 0.5	16/0.2	21.1	570
73-210051130X	30 x 0.5	16/0.2	32.3	1260
73-210051201X	1 x 0.75	24/0.2	-	-
73-210051202X	2 x 0.75	24/0.2	12.8	225
73-210051205X	5 x 0.75	24/0.2	16.3	330
73-210051210X	10 x 0.75	24/0.2	22.6	660
73-210051230X	30 x 0.75	24/0.2	35.9	1390
73-210021301X	1 x 1.0	7/0.43	-	-
73-210021302X	2 x 1.0	7/0.43	12.8	240
73-210021305X	5 x 1.0	7/0.43	16.2	350
73-210021310X	10 x 1.0	7/0.43	22.6	700
73-210021330X	30 x 1.0	7/0.43	35.4	1740
73-210021401X	1 x 1.5	7/0.53	-	-
73-210021402X	2 x 1.5	7/0.53	14.7	290
73-210021405X	5 x 1.5	7/0.53	18.8	530
73-210021410X	10 x 1.5	7/0.53	26.5	880
73-210021430X	30 x 1.5	7/0.53	41.0	2230

# INSTRUMENTATION CABLE BS 5308 PART-2



## ▷ BS 5308 Part 2 Type 2: PVC Insulation/Collective Screen/Armoured

Part Number	No. of Pairs x Nom. CSA n x mm <sup>2</sup>	Nom. No. and Nom. Dia. n x mm	Nom. Overall Diameter mm	Nom. Weight kg/km
73-311151102X	2 x 0.5	16/0.2	12.3	340
73-311151105X	5 x 0.5	16/0.2	17.9	630
73-311151110X	10 x 0.5	16/0.2	22.9	1100
73-311151130X	30 x 0.5	16/0.2	33.9	2050
73-311151202X	2 x 0.75	24/0.2	12.9	380
73-311151205X	5 x 0.75	24/0.2	19.8	830
73-311151210X	10 x 0.75	24/0.2	25.3	1410
73-311151230X	30 x 0.75	24/0.2	37.5	2650
73-311121302X	2 x 1.0	7/0.43	13.0	395
73-311121305X	5 x 1.0	7/0.43	19.7	880
73-311121310X	10 x 1.0	7/0.43	24.3	1480
73-311121330X	30 x 1.0	7/0.43	36.2	2540
73-311121402X	2 x 1.5	7/0.53	14.3	470
73-311121405X	5 x 1.5	7/0.53	22.1	1040
73-311121410X	10 x 1.5	7/0.53	28.4	1680
73-311121430X	30 x 1.5	7/0.53	42.5	3560

## ▷ BS 5308 Part 2 Type 2: PVC Insulation/Individual and Collective Screen/Armoured

Part Number	No. of Pairs x Nom. CSA n x mm <sup>2</sup>	Nom. No. and Nom. Dia. n x mm	Nom. Overall Diameter mm	Nom. Weight kg/km
73-411151102X	2 x 0.5	16/0.2	16.8	510
73-411151105X	5 x 0.5	16/0.2	20.9	860
73-411151110X	10 x 0.5	16/0.2	27.9	1430
73-411151130X	30 x 0.5	16/0.2	40.5	2760
73-411151202X	2 x 0.75	24/0.2	17.6	560
73-411151205X	5 x 0.75	24/0.2	22.0	1040
73-411151210X	10 x 0.75	24/0.2	29.5	1760
73-411151230X	30 x 0.75	24/0.2	43.9	3560
73-411121302X	2 x 1.0	7/0.43	17.6	580
73-411121305X	5 x 1.0	7/0.43	21.9	1080
73-411121310X	10 x 1.0	7/0.43	29.4	1500
73-411121330X	30 x 1.0	7/0.43	43.8	3370
73-411121402X	2 x 1.5	7/0.53	20.4	800
73-411121405X	5 x 1.5	7/0.53	25.4	1320
73-411121410X	10 x 1.5	7/0.53	33.5	2000
73-411121430X	30 x 1.5	7/0.53	50.8	4550

X > BK:Black BL:Blue GN:Green GY:Gray RD:Red WH:White TP:Transparent