

Multipair Instrumentation Cables - BS5308

BS 5308 Part 1/Type 1 (Polyethylene insulated) - UNARMoured

SPECIFICATION

Plain annealed copper conductors, solid polyethylene insulated, (PE). Ind. Aluminium-Mylar pair screened including drain wire, collective Aluminium-Mylar screened including drain wire. PVC sheathed.

Pairs : Two insulated conductors uniformly twisted together forming a pair. Lay length should not exceed 100mm and layed in a manner that the two wires forming the pair cannot be dissociated by normal handling. Two pair cables without individual pair screens shall be laid up in a quad formation.

Screens : Individually and collectively screened by a laminated, bonded aluminium/PETP tape overlapped. Metallic side of the screens are in contact with a tinned annealed copper wire 'drain wire' running throughout the cable length.

Colour Of Sheath : Blue and Black.

Operating Temperature : 0 C - 70 C.

Minimum Bending Radius : 6 x Overall Diameter.
300/500 Volt grade.

Pair	Overall Diameter mm	Weight kg/km	Gland Size
0.5mm sq. (16/0.20)			
1	7.3	50	20ss
2	11.8	130	20
5	21.1	220	32
10	23.2	370	32
20	27.3	660	40
30	32.3	960	50s
50	41.7	1590	50
0.75mm sq. (24/0.20)			
1	7.3	60	20ss
2	12.7	145	20
5	16.2	230	25
10	24.6	450	32
20	29.8	800	40
30	35.4	1300	50s
50	45.8	1750	63s
1.5mm sq. (7/0.50)			
1	8.0	65	20ss
2	14.0	170	25s
5	18.1	310	25
10	25.7	610	40
20	33.6	1010	50s
30	39.8	1870	50
50	51.6	2210	63s

While every care is taken to ensure that the information contained in this data sheet is correct, no legal responsibility can be accepted for any inaccuracy. The Company reserves the right to alter or modify the information contained herein at any time in the light of other developments.

Date created: 02.04.2003

Telephone: +44 (0)121 508 6890

Fax: +44 (0)121 508 6891

Web: www.cablesbritain.com

Email: sales@cablesbritain.com

**MULTIPAIR INSTRUMENTATION CABLE
BS5308 PT1 TY1 UNARMoured
ELECTRICAL CHARACTERISTICS**

Operating Temperature: Maximum 65 C. Minimum Bending 0 C.

Minimum Bending radius: 4x overall diameter.

Conductor dimensions:	Size and stranding	- 0.5sq.mm Class 5 Flexible
	Conductor diameter	- 0.93mm.
	Insulation thickness	- 0.6mm (nominal)
	Diameter over core	- 2.35mm (max)

Electrical Performance:

Max. DC resistance at 20 C per loop KM - 78.0 OHMS.
Max. inductance/resistance (L/R) ratio - 25 MICROHENRIES/OHM.
Max. mutual capacitance at 1KHz - 115 PICO FARADS/MTR.

Minimum bending radius: 6x overall diameter.

Conductor dimensions:	Size and stranding	- 0.75sq.mm Class 5 flexible.
	Conductor Diameter	- 1.14mm
	Insulation thickness	- 0.6mm (nominal)
	Diameter over core	- 2.55mm (max)

Electrical Performance:-

Max. DC resistance at 20 C per loop KM - 52.0 OHMS.
Max. inductance/resistance (L/R) ratio - 25 MICROHENRIES/OHM.
Max. mutual capacitance at 1KHz - 115 PICO FARADS/MTR (1 and 2 pair).
- 75 PICO FARADS/MTR (3 pair +)

Minimum bending radius: 6x overall diameter.

Conductor dimensions:	Size and stranding	- 1.5sq.mm Class 2 stranded
	Conductor diameter	- 1.59mm
	Insulation thickness	- 0.6mm (nominal)
	Diameter over core	- 3.0mm (max)

Electrical Performance:-

Max. DC resistance at 20 C per loop KM - 28.6 OHMS.
Max. inductance/resistance (L/R) ratio - 40 MICROHENRIES/OHM.
Max. Mutual capacitance at 1 KHz - 115 PICO FARADS/MTR

