APPLICATION

Publicly Available Standard (PAS) BS 5308 cables are designed to carry communication and control signals in a variety of installation types including those found in the petrochemical industry. The signals can be of analogue, data or voice types and from a variety of transducers such as pressure, proximity or microphone. Part 1 Type 2 cables are designed where a greater degree of mechanical protection is required or where there is direct burial at a suitable depth. Suitable for fire resistant installations. Individually screened for enhanced signal security.

CHARACTERISTICS

Voltage Rating (Uo/U): 300/500V

Operating Temperature

Fixed: -40ºC to +80ºC

Flexed: 0ºC to +50ºC

Temperature Rating

Fixed: 12 x overall diamete

CONSTRUCTION

Conductor

0.5mm² - 0.75mm²: Class 5 flexible copper conductor

1mm² and above: Class 2 stranded copper conductor

Insulation

Silicone rubber ceramic type

Individual and Collective Screen

Al/PET (Aluminium/Polyester Tape)

Drain Wire

Tinned copper

Inner Sheath

LSZH (Low Smoke Zero Halogen)

Armour

SWA (Galvanised steel wires)

Sheath

LSZH (Low Smoke Zero Halogen)

Sheath Colour: Red Black

STANDARDS

BS/PAS 5308, EN 60228

Flame Retardant according to IEC/EN 60332-1-2, IEC/EN 60332-3-22/24, IEC/EN 60331-21

Halogen free according to IEC/EN 61034-1/2, IEC/EN 60754-1/2

DIMENSIONS

NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm2	NOMINAL OVERALL DIAMETER mm
2P	0.5	14.6
2P	1	15.4
2P	1.5	17.7
2P	2.5	19.9

2P	0.75	15.8
3P	0.5	15.4
3P	1	16.7
3P	1.5	18.5
3P	2.5	20.8
3P	0.75	16.9
5P	0.5	18.2
5P	1	19.9
5P	1.5	22.6
5P	2.5	25.9
5P	0.75	20.1
10P	0.5	26
10P	1	27.4
10P	1.5	31
10P	2.5	34.9
10P	0.75	27.7
15P	0.5	29.1
15P	1	30.6
15P	1.5	35.8
15P	2.5	39.2
15P	0.75	31
20P	0.5	31.8
20P	1	34.8
20P	1.5	39.7
20P	2.5	43.4
20P	0.75	35.2
30P	0.5	37.2
30P	1	39.7
30P	1.5	45.2
30P	2.5	50.6
30P	0.75	40.3

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm2	CONDUCTOR CLASS	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km
0.5	5	39
0.75	5	26
1	1	18.1
1.5	2	12.1
2.5	2	7.41

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm2	MUTUAL CAPACITANCE pF/m	MINIMUM INSULATION RESISTANCE AT 20°C Gohms/km	MAXIMUM L/R RATIO µH/ohms

	Between Pairs or Adjacent Cores	Between any Core and Screen		
0.5	250	450	>25	25
0.75	250	450	>25	25
1	250	450	>25	25
1.5	250	450	>25	40
2.5	250	450	>25	65