



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.

CHARACTERISTICS

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

Operating Temperature

Fixed: -40°C to +80°C

Flexed: 0°C to +50°C

Minimum Bending Radius

Fixed: 12 x overall diameter

CONSTRUCTION

Conductor

0.5mm² - 0.75mm²: Class 5 flexible copper conductor

1mm² and above: Class 2 stranded copper conductor

Insulation

Silicone rubber ceramic type

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 BS EN/IEC 60332-1-2, BS EN/IEC 60332-3-22/24, IEC/EN 60332-21

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

DIMENSIONS

NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm
1P	0.5	10.9
1P	1	11.3
1P	1.5	12.3
1P	2.5	13.3
1P	0.75	11.4

1T	0.5	11.3
1T	1	11.7
1T	1.5	13
1T	2.5	13.8
1T	0.75	11.8
2P(Q)	0.5	11.8
2P(Q)	1	12.3
2P(Q)	1.5	13.7
2P(Q)	2.5	14.7
2P(Q)	0.75	12.6
5P	0.5	17.2
5P	1	18.1
5P	1.5	21.1
5P	2.5	23.2
5P	0.75	18.3
10P	0.5	23.2
10P	1	25.9
10P	1.5	29.3
10P	2.5	31.8
10P	0.75	26.2
15P	0.5	27.2
15P	1	28.9
15P	1.5	33.6
15P	2.5	36.8
15P	0.75	29.2
20P	0.5	29.9
20P	1	31.5
20P	1.5	37
20P	2.5	40.9
20P	0.75	33

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	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 mm ²	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