

PAS/BS 5308 CAM/IAM PART 2 TYPE 2 INSTRUMENTATION CABLE



Our instrumentation cables, manufactured to PAS5308 standards, ensure safety and reliability for communication and instrumentation applications in process industries, transmitting analogue or digital signals from various sensors and transducers. These cables, featuring steel wire armour (SWA), provide exceptional protection in aggressive environments.

Designed for indoor and outdoor installations in industrial process plants and for data and voice transmission services, they are also used to interconnect electrical equipment and instruments, particularly in process plants. These cables are widely utilized throughout the petroleum industry.

CONDUCTOR	Plain Copper
INSULATION	PVC
INDIVIDUAL SCREEN	Individual Aluminium Mylar
COLLECTIVE SCREEN	Collective Aluminium Mylar
BEDDING	PVC
ARMOUR	Steel Wire Armour
OUTERSHEATH	PVC
OUTERSHEATH COLOUR	Black, Blue
RATED VOLTAGE	500V
CORE IDENTIFICATION	According to BS5308 part 2
OPERATING TEMPERATURE	70°C
STANDARDS	BS/PAS 5308, EN 60228

SPECIFICATION DATA

CONDUCTORS

Nominal Cross Sectional area mm	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	Mutual Capacitance pF/m Between Pairs or Adjacent Cores	Mutual Capacitance pF/m Between any Core and Screen	Minimum Insulation Resistance at 20°C mohms/km	Maximum L/R Ratio µH/ohms
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

DIMENSIONS

BATT Part No	No. of Pairs	Nominal Cross Sectional Area mm	Approx overall diameter
83536	1 Pair	0.5	10.5
85130	1 Pair	0.75	10.9
85127	1 Pair	1.5	12
85343	1 Pair	2.5	12.9
85132	1 Triple	0.75	11.3
85337	1 Triple	1.5	13.5
86310	1 Triple	2.5	13.6
85273	2 Pair	0.5	15.1
85275	2 Pair	1.5	13.3
85157	3 Pair	0.75	15.2
85164	3 Pair	1.5	18
85308	5 Pair	0.5	16.9
85603	5 Pair	0.75	19.2
85278	5 Pair	1.5	21.1
85235	10 Pair	0.5	22.9
85136	10 Pair	0.75	25.3
85213	10 Pair	1.5	27.4
85366	20 Pair	0.5	29.1
85137	20 Pair	0.75	30.3
85129	20 Pair	1.5	35.7
85218	30 Pair	0.75	37.5
85248	30 Pair	1.5	42.5

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

