INSTRUMENTATION

PROCON

B56 CS SWA

Overall Screened

APPLICATION		
Suitable for the interconnection of: ▪ Electrical measuring devices to instrument panel. ▪ Instrument to instrument. ▪ Electrical sensing devices to control cabinets. ▪ Control cabinets to supervisory consoles and panels. ▪ Telemeters to recorders and annunciators. Suitable for glanding. Armoured version offers additional mechanical protection.	COLOUR CODE	Each triple element Wire 1 – White with number mark Wire 2 – Black with number mark Wire 3 – Red with number mark
	STANDARD	AS/NZS 1125 AS/ACIF S008 IEC 60332-3 Cat.A, IEC 60332-1 & W-1 IS Circuits to AS 2380.7 & AS 2381.7 AS/NZS 3808
	CONDUCTOR	Annealed Copper (16 AWG)
	INSULATION	PVC V-90HT
	SCREEN	Aluminium/Polyester tape with 7/0.25mm Tinned Copper Drain Wire
	BEDDING	Flame Retardant PVC Black
	ARMOUR	Galvanised Steel Wire
	SHEATH	Flame Retardant PVC Black to AS/NZS 3808 (Intrinsically Safe blue PVC Sheath available on request)

TECHNICAL SPECIFICATIONS

ITEM NUMBER	TYPE	CONDUCTOR			APPROX. MASS (kg/km)
		NUMBER OF TRIPLES	mm^2	NUMBER & DIAMETER OF WIRES (No./mm)	
25168016	B5604 CS SWA	4	1.5	7/0.50	760
25175016	B5606 CS SWA	6	1.5	7/0.50	1130
29640016	B5608 CS SWA	8	1.5	7/0.50	1150
29670016	B5610 CS SWA	10	1.5	7/0.50	1680
29630016	B5612 CS SWA	12	1.5	7/0.50	2840
29790016	B5616 CS SWA	16	1.5	7/0.50	2210
29800016	B5624 CS SWA	24	1.5	7/0.50	3790
29666016	B5636 CS SWA	36	1.5	7/0.50	4950

TECHNICAL SPECIFICATIONS - Continued

ITEM NUMBER	TYPE	NUMBER OF TRIPLES	INSULATION THICKNESS	NOMINAL DIAMETER			MINIMUM INSTALLED BENDING RADIUS	MAXIMUM PULLING TENSION (a)
				OVER BEDDING	OVER ARMOUR	OVERALL		
			mm	mm	mm	mm	mm	kN
25168016	B5604 CS SWA	4	0.5	14.9	17.4	20.0	240	4.5
25175016	B5606 CS SWA	6	0.5	18.1	21.3	24.2	300	7.0
29640016	B5608 CS SWA	8	0.5	18.5	21.7	24.7	300	7.2
29670016	B5610 CS SWA	10	0.5	23.1	26.3	29.6	360	8.8
29630016	B5612 CS SWA	12	0.5	25.3	28.5	32.0	390	9.7
29790016	B5616 CS SWA	16	0.5	28.8	32.0	35.5	430	11.1
29800016	B5624 CS SWA	24	0.5	35.4	40.4	45.0	540	20.0
29666016	B5636 CS SWA	36	0.5	42.6	47.6	52.3	630	20.0

(a) Based on a steel strength of 100 N/mm².

ELECTRICAL CHARACTERISTICS		
PROPERTY	VALUE	UNITS
DC Conductor Resistance @ 20°C	13.6	Ω/km
Maximum Continuous Current Rating	13	Amps
Maximum recommended Voltage	110	V_{RMS}
Maximum working Voltage	150	V_{DC}
Capacitance (core to core)	110	pF/m
Inductance @ 1kHz	0.8	mH/km
L/R Ratio	31	μH/Ω

NOTE:

- All cables are subject during manufacture to in-process spark testing at 4kV DC
- All cables are tested between each conductor and screens earthed at 4kV DC
- These cables are not to be regarded as power cables or for the direct connection of equipment to mains power supplies
- Values are nominal unless otherwise specified

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