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## Part No: MCP703xxS-BW Series

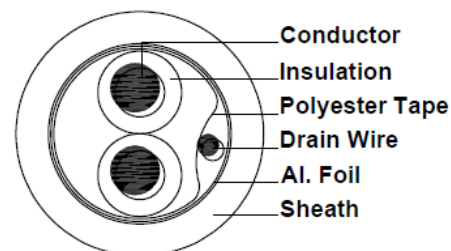


Description	0.5mm <sup>2</sup> Stranded PACW, V-90 PVC insulated, twinned, cabled, overall aluminium laminate screened with a 7/0.20mm TAC drain wire, 5V-90 PVC overall jacketed, instrumentation and ELV control cable.
Applicable Standards	AS/NZS 1125, AS/NZS 3808, IEC 60332-1
Suitable Applications	Instrument and control cable for use in industrial applications including the interconnection of signals between cabinets, consoles, sensors and display panels.
	Not Suitable for mains connection.

### Cable Construction Drawing



### Cable Construction Relative Parts



1 Pair cable shown for illustration purposes.  
Other pair counts of similar construction  
Refer to Construction table

Cable Construction		
Conductor	Standard	AS/NZS 1125 or IEC 60228
	Conductor class	Class 2 – Stranded conductor
	Material	PACW
	Nom. Stranding	7

Instrument & Control Cable

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Insulation	Material	V-90 PVC
	Colours:	Black insulation with white printed numbers. White insulation with black printed numbers.  For cables with 2 or more pairs, the insulation shall be printed with the pair number at intervals of no more than 50 mm Eg: 1 1 1 1  For 1 pair cables no printing is required.
Insulation	Diameter:	1.7 mm $\pm$ 0.1 mm
	Average Thickness:	0.4 mm
Basic Element	Twins	Black & White conductors twinned together
Overall Taping and Screening	Material	Polyester or PET tape
	Drain wire	7/0.2mm (nominal) drain wire
	Overall screen	Aluminium/Polyester laminate. Aluminium facing in and in contact with the drain wire.
	Coverage	100%
Sheath	Material:	5V-90 PVC
	Colour:	White ink on black jacket Black ink on blue jacket
	Nominal Diameter:	Refer to construction table
	Nominal Thickness:	Refer to construction table

### Electrical Properties

Voltage Rating	110VAC, 150VDC
DCR	$\leq$ 38.4 Ohms/km @ 20°C
Mutual Capacitance	$<$ 250 pF/m
Inductance	$\leq$ 1.1 $\mu$ H/m
Nom L/R ratio	$<$ 25 $\mu$ H/ $\Omega$

### Mechanical Properties

Operating Temperature Range	-15 to 90°C
Min. Bend Radius (install)	18 x Diameter

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### Construction Table

Part Number	Nos of Pairs	Pack size <sup>1</sup> (m)	Screen	Jacket Colour <sup>2</sup>	Nom. Cable Diameter (mm)	Nom Jacket Thickness (mm)	Approx Weight (Kg/Km)
MCP7031S100-BW	1	100	Overall	Black	4.8	0.6	30.2
MCP7031S500-BW	1	500	Overall	Black	4.8	0.6	30.2
MCP7031S1000-BW	1	1000	Overall	Black	4.8	0.6	30.2
MCP7032S100-BW	2	100	Overall	Black	6.4	0.7	52.2
MCP7032S500-BW	2	500	Overall	Black	6.4	0.7	52.2
MCP7032S1000-BW	2	1000	Overall	Black	6.4	0.7	52.2
MCP7033S100-BW	3	100	Overall	Black	7.4	0.7	70.0
MCP7033S500-BW	3	500	Overall	Black	7.4	0.7	70.0
MCP7033S1000-BW	3	1000	Overall	Black	7.4	0.7	70.0
MCP7034S100-BW	4	100	Overall	Black	8.4	0.75	89.3
MCP7034S500-BW	4	500	Overall	Black	8.4	0.75	89.3
MCP7034S1000-BW	4	1000	Overall	Black	8.4	0.75	89.3
MCP7036S100-BW	6	500	Overall	Black	10.0	0.85	128.1
MCP7036S1000-BW	6	1000	Overall	Black	10.0	0.85	128.1
MCP7038S500-BW	8	500	Overall	Black	11.4	0.95	166.8
MCP7038S1000-BW	8	1000	Overall	Black	11.4	0.95	166.8
MCP70310S100-BW	10	500	Overall	Black	12.8	1.05	207
MCP70310S1000-BW	10	1000	Overall	Black	12.8	1.05	207
MCP70312S100-BW	12	500	Overall	Black	13.8	1.05	240.5
MCP70312S1000-BW	12	1000	Overall	Black	13.8	1.05	240.5
MCP70316S500-BW	16	500	Overall	Black	13.4	1.2	317.4
MCP70316S1000-BW	16	1000	Overall	Black	13.4	1.2	317.4

- Madison reserves the right to make changes to the products described in this specification without prior notice
- All values subject to factory tolerances

<sup>1</sup> Other lengths available subject to negotiation. MoQ and lead time restrictions may apply

<sup>2</sup> Other colours available upon request. MoQ and lead time restrictions may apply.

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