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## Part No: MCP705xxS-BW Series



Description 1.5mm<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

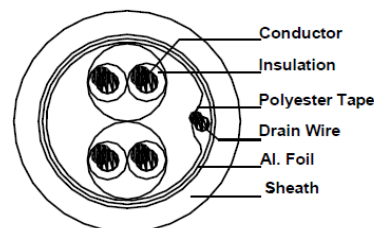
Suitable Applications Instrument and control cable for use in industrial applications including the interconnection of signals between cabinets, consoles, sensors and display panels.

Not Suitable for mains connection.

### Cable Construction Drawing



### Cable Construction Relative Parts



2 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	7/0.5 mm

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:	2.3 mm ± 0.1 mm
	Average Thickness:	0.40 mm ± 0.02 mm
Basic Element	Twins	Black & White conductors twinned together
Overall Taping and Screening	Material	Polyester or PET tape
	Drain wire	7/0.2mm (nominal) TAC 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:	Black
	Nominal Diameter:	Refer to construction table
	Nominal Thickness:	Refer to construction table

### Electrical Properties

Voltage Rating	110VAC, 150VDC
DCR	≤ 13.6 Ohms/km @ 20°C
Mutual Capacitance	< 250 pF/m
Inductance	≤ 0.95 μH/m
Nom L/R ratio	35 μH/Ω

### 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)
MCP7051S100-BW	1	100	Overall	Black	6.2	0.65	56.6
MCP7051S500-BW	1	500	Overall	Black	6.2	0.65	56.6
MCP7051S1000-BW	1	1000	Overall	Black	6.2	0.65	56.6
MCP7052S100-BW	2	100	Overall	Black	8.2	0.8	109.7
MCP7052S500-BW	2	500	Overall	Black	8.2	0.8	109.7
MCP7052S1000-BW	2	1000	Overall	Black	8.2	0.8	109.7
MCP7053S100-BW	3	100	Overall	Black	9.6	0.85	141.1
MCP7053S500-BW	3	500	Overall	Black	9.6	0.85	141.1
MCP7053S1000-BW	3	1000	Overall	Black	9.6	0.85	141.1
MCP7054S100-BW	4	100	Overall	Black	11.0	0.95	184.8
MCP7054S500-BW	4	500	Overall	Black	11.0	0.95	184.8
MCP7054S1000-BW	4	1000	Overall	Black	11.0	0.95	184.8
MCP7056S100-BW	6	100	Overall	Black	13.2	1.05	267.3
MCP7056S500-BW	6	500	Overall	Black	13.2	1.05	267.3
MCP7056S1000-BW	6	1000	Overall	Black	13.2	1.05	267.3
MCP7058S100-BW	8	100	Overall	Black	15.2	1.2	353.3
MCP7058S500-BW	8	500	Overall	Black	15.2	1.2	353.3
MCP7058S1000-BW	8	1000	Overall	Black	15.2	1.2	353.2
MCP70510S100-BW	10	100	Overall	Black	16.9	1.2	430
MCP70510S500-BW	10	500	Overall	Black	16.9	1.2	430
MCP70510S1000-BW	10	1000	Overall	Black	16.9	1.2	430
MCP70512S100-BW	12	100	Overall	Black	18.4	1.35	516.9
MCP70512S500-BW	12	500	Overall	Black	18.4	1.35	516.9

- 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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