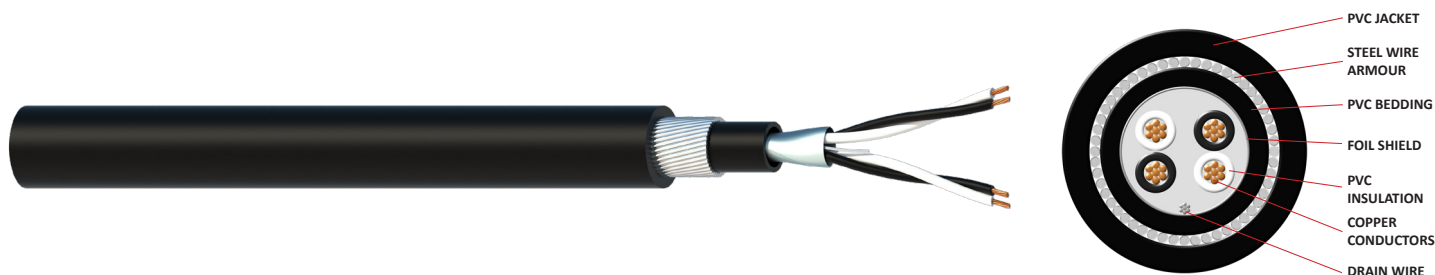


INSTRUMENTATION CABLE

0.5mm² OS SWA - BLACK

APPLICATION: Used in process control applications for interconnecting measurement instruments, instrument panels, sensing devices and control systems. These cables are not to be regarded as power cables and should not be used for the direct connection of equipment to mains power supplies.



TECHNICAL DATA

Conductor	Stranded Plain Annealed Copper Conductor 0.5mm ² (7/0.30)
Insulation	PVC, V-90, White & Black Numbered Twisted Pair
Screen	Overall Aluminium/Polyester Foil Shield with 7/0.20 Tinned Copper Drain Wire
Bedding	Black PVC, 5V-90, Flame Retardant
Armouring	Single layer galvanised (mild) steel wires helically applied over bedding
Sheath	Black PVC, 5V-90, Flame Retardant UV Resistant
Operating Voltage	110V AC/150V DC
Operating Temperature	-20°C to +90°C
Bending Radius	12D
Standards	International: IEC 60332-3-22, IEC 60079.14 Australia/NZ: AS/NZS 1125, AS/NZS 3808, AS/NZS 1660, AS/NZS 3863

Maximum Current Rating (Amps)	3.2
Conductor Resistance @ 20°C (Ω/km)	38.4
Capacitance Cond. to Cond. - Unscreened (pf/m)	85
Capacitance Cond. to Cond. - Screened (pf/m)	145
Capacitance Cond. to Scr. - Screened (pf/m)	240
Characteristic Impedance @ 1kHz Unscreened (Ohms)	380
Characteristic Impedance @ Screened 1kHz (Ohms)	300
Inductance @ 1kHz (mH/km)	1.0
LR Ratio (uH/Ω)	13.7

PHYSICAL CHARACTERISTICS

Product Code	No. of Pairs	Conductor Area (mm ²)	Conductor Stranding (No./mm)	Insulation Thickness (mm)	Nominal O.D. Under Armour (mm)	Nominal O.D. (mm)	Approx. Weight (kg/km)
MAU5001CS SWA	1	0.5	7/0.30	0.4	5.8	10.2	202
MAU5002CS SWA	2	0.5	7/0.30	0.4	8.2	12.6	285
MAU5004CS SWA	4	0.5	7/0.30	0.4	9.4	14.0	355
MAU5006CS SWA	6	0.5	7/0.30	0.4	10.8	15.4	425
MAU5008CS SWA	8	0.5	7/0.30	0.4	11.4	17.1	606
MAU5010CS SWA	10	0.5	7/0.30	0.4	13.3	19.2	717
MAU5012CS SWA	12	0.5	7/0.30	0.4	13.7	19.6	764
MAU5016CS SWA	16	0.5	7/0.30	0.4	15.2	21.1	882
MAU5020CS SWA	20	0.5	7/0.30	0.4	16.9	23.7	1161
MAU5024CS SWA	24	0.5	7/0.30	0.4	18.7	25.5	1305
MAU5036CS SWA	36	0.5	7/0.30	0.4			
MAU5050CS SWA	50	0.5	7/0.30	0.4			

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