

OVERALL SCREENED SWA CABLES

INSTRUMENTATION
 CABLES

OVERALL SCREENED SWA CABLES - LSZH (Low Smoke Zero Halogen)

CABLE APPLICATION

Description
 Cable based on BS50288 requirements and any relevant AS/NZS requirements.



CABLE DESIGN

Conductor
 Bare Annealed Copper to AS/NZS 1125

Core Colour
 Each Pair one White and one Black Conductor with all pairs numbered

Insulation
 Flame Retardant FR-V90 to UL Style 1596 and AS/NZS 3808

Screen
 Overall Screen is of Aluminium/Polyester Tape with a Tinned Copper 7/0.20 Drain Wire

Armoured
 Steel Wire Armoured to AS/NZS 3863

Sheath
 Black V-90 LSZH (Low Smoke Zero Halogen) to UL Style 2464 & AS/NZS 3808

Inductance
 0.5mm² - 1.10 mH/km@1kHz
 1.5mm² - 0.95 mH/Km@1kHz

Capacitance
 (Conductor to Conductor)
 0.5mm² - 0.145 uF/km@1kHz
 1.5mm² - 0.20 uF/km@1kHz

L/R Ratio
 0.5mm² - 0.0157 mH/Ω
 1.5mm² - 0.0365 mH/Ω

Flame Retardance
 IEC60332-1

Note

- These cables are not suitable for direct connection to mains supply.
- Nominal voltage rating - AC/DC 110/150V
- Not all sizes and colours are available ex-stock, minimum order quantity will apply for some items.
- Special sheath colours on request.
- Cables are Green Star / PVC best practice certified.

0.5mm²

Part Number	Pairs	Cond. No./Dia. mm	Insulation Thickness mm	Overall Dia. Bedding	SWA Dia.	Overall Dia. Over Armour	Nom. Overall Dia. mm	Conductor resistance @20°C Ω/km	Approx. Mass Kg/100m
INS1P7030O/ALLSCRSWABK	1	7/0.30	0.4	5.6	0.9	7.4	8.8	38.4	22.5
INS2P7030O/ALLSCRSWABK	2	7/0.30	0.4	7.6	0.9	9.4	10.8	38.4	29.8
INS4P7030O/ALLSCRSWABK	4	7/0.30	0.4	8.8	0.9	10.6	12.2	38.4	35.8
INS6P7030O/ALLSCRSWABK	6	7/0.30	0.4	10.4	0.9	12.2	14.0	38.4	44.0
INS8P7030O/ALLSCRSWABK	8	7/0.30	0.4	11.2	0.9	13.0	15.2	38.4	50.7
INS10P7030O/ALLSCRSWABK	10	7/0.30	0.4	13.1	0.9	14.9	17.3	38.4	59.2
INS12P7030O/ALLSCRSWABK	12	7/0.30	0.4	13.5	0.9	15.3	17.7	38.4	63.2
INS16P7030O/ALLSCRSWABK	16	7/0.30	0.4	15.0	0.9	16.8	19.6	38.4	76.3
INS20P7030O/ALLSCRSWABK	20	7/0.30	0.4	16.2	1.25	18.7	21.9	38.4	100.6
INS24P7030O/ALLSCRSWABK	24	7/0.30	0.4	18.5	1.25	21.0	24.4	38.4	115.0
INS36P7030O/ALLSCRSWABK	36	7/0.30	0.4	21.2	1.25	23.8	27.4	38.4	144.9

1.5mm²

Part Number	Pairs	Cond. No./Dia. mm	Insulation Thickness mm	Overall Dia. Bedding	SWA Dia.	Overall Dia. Over Armour	Nom. Overall Dia. mm	Conductor resistance @20°C Ω/km	Approx. Mass Kg/100m
INS1P7050O/ALLSCRSWABK	1	7/0.50	0.4	6.8	0.9	8.6	10.0	13.8	27.8
INS2P7050O/ALLSCRSWABK	2	7/0.50	0.4	9.6	0.9	11.4	13.2	13.8	39.0
INS4P7050O/ALLSCRSWABK	4	7/0.50	0.4	11.1	0.9	12.9	15.1	13.8	49.8
INS6P7050O/ALLSCRSWABK	6	7/0.50	0.4	13.2	0.9	15.0	17.4	13.8	65.1
INS8P7050O/ALLSCRSWABK	8	7/0.50	0.4	14.3	0.9	16.1	18.9	13.8	74.9
INS10P7050O/ALLSCRSWABK	10	7/0.50	0.4	16.9	1.25	19.4	22.2	13.8	104.3
INS12P7050O/ALLSCRSWABK	12	7/0.50	0.4	17.5	1.25	20.0	23.2	13.8	115.0
INS16P7050O/ALLSCRSWABK	16	7/0.50	0.4	19.5	1.25	22.0	25.2	13.8	137.0
INS20P7050O/ALLSCRSWABK	20	7/0.50	0.4	21.2	1.25	23.7	27.1	13.8	159.1
INS24P7050O/ALLSCRSWABK	24	7/0.50	0.4	24.3	1.25	26.8	30.4	13.8	185.8
INS36P7050O/ALLSCRSWABK	36	7/0.50	0.4	28.4	1.60	31.6	35.4	13.8	264.5

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