

INDIVIDUAL & OVERALL SCREENED SWA CABLES

INSTRUMENTATION  
 CABLES

# INDIVIDUAL & 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**  
Individual Screens of Aluminium/Polyester Tape with a Tinned Copper 7/0.20 Drain Wire  
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**  
0.5mm<sup>2</sup> - 1.10 mH/km@1khz  
1.5mm<sup>2</sup> - 0.95 mH/Km@1khz
- Capacitance**  
(Conductor to Conductor)  
0.5mm<sup>2</sup> - 0.145 uF/km@1khz  
1.5mm<sup>2</sup> - 0.20 uF/km@1khz
- L/R Ratio**  
0.5mm<sup>2</sup> - 0.0157 mH/Ω  
1.5mm<sup>2</sup> - 0.0365 mH/Ω
- Flame Retardance**  
IEC60332-1
- Note**  
1. These cables are not suitable for direct connection to mains supply.  
2. Nominal voltage rating - AC/DC 110/150V  
3. Not all sizes and colours are available ex-stock, minimum order quantity will apply for some items.  
4. Special sheath colours on request.  
5. Cables are Green Star / PVC best practice certified.

0.5mm<sup>2</sup>

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
INS2P7030INDO/ALLSCRSWABK	2	7/0.30	0.4	8.3	0.9	10.1	11.5	38.4	31.8
INS4P7030INDO/ALLSCRSWABK	4	7/0.30	0.4	9.6	0.9	11.4	13.0	38.4	38.7
INS6P7030INDO/ALLSCRSWABK	6	7/0.30	0.4	11.4	0.9	13.2	15.0	38.4	48.0
INS8P7030INDO/ALLSCRSWABK	8	7/0.30	0.4	12.3	0.9	14.1	16.3	38.4	55.5
INS10P7030INDO/ALLSCRSWABK	10	7/0.30	0.4	14.4	0.9	16.2	18.6	38.4	65.1
INS12P7030INDO/ALLSCRSWABK	12	7/0.30	0.4	14.9	0.9	16.7	19.1	38.4	69.9
INS16P7030INDO/ALLSCRSWABK	16	7/0.30	0.4	16.6	0.9	18.4	21.2	38.4	99.5
INS20P7030INDO/ALLSCRSWABK	20	7/0.30	0.4	18.0	1.25	20.5	23.7	38.4	111.3
INS24P7030INDO/ALLSCRSWABK	24	7/0.30	0.4	20.6	1.25	23.1	26.5	38.4	127.7
INS36P7030INDO/ALLSCRSWABK	36	7/0.30	0.4	23.6	1.25	26.1	29.7	38.4	162.2

1.5mm<sup>2</sup>

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
INS2P7050INDO/ALLSCRSWABK	2	7/0.50	0.4	6.4	0.9	12.2	14.0	13.8	41.3
INS4P7050INDO/ALLSCRSWABK	4	7/0.50	0.4	12.1	0.9	13.9	16.1	13.8	53.2
INS6P7050INDO/ALLSCRSWABK	6	7/0.50	0.4	14.4	0.9	16.2	18.6	13.8	69.9
INS8P7050INDO/ALLSCRSWABK	8	7/0.50	0.4	15.7	0.9	17.5	20.3	13.8	80.5
INS10P7050INDO/ALLSCRSWABK	10	7/0.50	0.4	18.5	1.25	21.0	23.8	13.8	113.6
INS12P7050INDO/ALLSCRSWABK	12	7/0.50	0.4	19.2	1.25	21.7	24.9	13.8	125.2
INS16P7050INDO/ALLSCRSWABK	16	7/0.50	0.4	21.4	1.25	23.9	27.1	13.8	147.7
INS20P7050INDO/ALLSCRSWABK	20	7/0.50	0.4	23.3	1.25	25.8	29.2	13.8	171.8
INS24P7050INDO/ALLSCRSWABK	24	7/0.50	0.4	26.7	1.60	29.9	33.5	13.8	223.6
INS36P7050INDO/ALLSCRSWABK	36	7/0.50	0.4	31.2	1.60	34.4	38.2	13.8	286.4

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