

OVERALL SCREENED SWA TRIAD CABLES

INSTRUMENTATION  
 CABLES

OVERALL SCREENED SWA TRIAD 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 Triad one White one Black and one Red Conductor with all triads continuously 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**  
 0.5mm<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 / Triads	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
INS1T7030O/ALLSCRSWABK	1	7/0.30	0.4	5.9	0.9	7.7	9.1	38.4	23.9
INS2T7030O/ALLSCRSWABK	2	7/0.30	0.4	6.4	0.9	9.6	11.4	38.4	29.8
INS3T7030O/ALLSCRSWABK	3	7/0.30	0.4	8.9	0.9	10.7	12.3	38.4	35.6
INS4T7030O/ALLSCRSWABK	4	7/0.30	0.4	9.8	0.9	11.6	13.4	38.4	39.9
INS6T7030O/ALLSCRSWABK	6	7/0.30	0.4	11.6	0.9	13.4	15.6	38.4	51.7
INS8T7030O/ALLSCRSWABK	8	7/0.30	0.4	12.5	0.9	14.3	16.7	38.4	58.5
INS10T7030O/ALLSCRSWABK	10	7/0.30	0.4	14.7	0.9	16.5	18.9	38.4	69.7
INS12T7030O/ALLSCRSWABK	12	7/0.30	0.4	15.2	0.9	17.0	19.8	38.4	75.2
INS16T7030O/ALLSCRSWABK	16	7/0.30	0.4	16.9	0.9	18.7	21.5	38.4	90.3
INS20T7030O/ALLSCRSWABK	20	7/0.30	0.4	18.3	0.9	20.8	24.0	38.4	102.8
INS24T7030O/ALLSCRSWABK	24	7/0.30	0.4	20.9	1.25	23.4	26.8	38.4	136.3
INS36T7030O/ALLSCRSWABK	36	7/0.30	0.4	24.0	1.25	26.5	30.1	38.4	178.5

1.5mm<sup>2</sup>

Part Number	Pairs / Triads	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
INS1T7050O/ALLSCRSWABK	1	7/0.50	0.4	7.2	0.9	9.0	10.4	13.8	30.3
INS2T7050O/ALLSCRSWABK	2	7/0.50	0.4	10.6	0.9	12.4	14.4	13.8	43.7
INS3T7050O/ALLSCRSWABK	3	7/0.50	0.4	11.3	0.9	13.1	15.3	13.8	52.0
INS4T7050O/ALLSCRSWABK	4	7/0.50	0.4	12.4	0.9	14.2	16.4	13.8	60.9
INS6T7050O/ALLSCRSWABK	6	7/0.50	0.4	14.9	0.9	16.7	19.3	13.8	78.4
INS8T7050O/ALLSCRSWABK	8	7/0.50	0.4	16.1	0.9	17.9	20.9	13.8	93.5
INS10T7050O/ALLSCRSWABK	10	7/0.50	0.4	19.1	1.25	21.6	24.8	13.8	111.9
INS12T7050O/ALLSCRSWABK	12	7/0.50	0.4	19.8	1.25	22.3	25.7	13.8	140.1
INS16T7050O/ALLSCRSWABK	16	7/0.50	0.4	22.0	1.25	24.5	28.1	13.8	168.1
INS20T7050O/ALLSCRSWABK	20	7/0.50	0.4	24.0	1.25	26.5	30.1	13.8	198.6
INS24T7050O/ALLSCRSWABK	24	7/0.50	0.4	27.9	1.6	31.1	34.7	13.8	257.7
INS36T7050O/ALLSCRSWABK	36	7/0.50	0.4	32.2	1.6	35.4	39.4	13.8	337.7

**CMI Head Office NSW** | (02) 9807 6155 | F3, 3-29 Birnie Ave, Lidcombe, NSW, 2141 | nswsales@cmielectrical.com.au  
**CMI QLD-Brisbane**  
 (07) 3863 0749  
 485A Zillmere Road,  
 Zillmere QLD 4034  
 southqdsales@cmielectrical.com.au

**CMI QLD – Rockhampton**  
 (07) 4921 0978  
 Shop 3 at 76 Hollingsworth Street,  
 North Rockhampton Qld 4701  
 northqdsales@cmielectrical.com.au

**CMI VIC**  
 (03) 9532 1233  
 3 Dissik Street,  
 Cheltenham VIC 3192  
 vicsales@cmielectrical.com.au

**CMI WA**  
 (08) 9358 1788  
 36 Division Street,  
 Welshpool WA 6106  
 wasales@cmielectrical.com.au