

INDIVIDUAL & OVERALL SCREENED SWA TRIAD CABLES

INSTRUMENTATION CABLES

INDIVIDUAL & 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
 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
 0.5mm² - 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

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.

0.5mm²

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
INS2T7030INDO/ALLSCRSWABK	2	7/0.30	0.4	8.8	0.9	10.6	12.2	38.4	34.6
INS3T7030INDO/ALLSCRSWABK	3	7/0.30	0.4	9.3	0.9	11.1	12.7	38.4	38.5
INS4T7030INDO/ALLSCRSWABK	4	7/0.30	0.4	10.2	0.9	12.0	13.8	38.4	44.0
INS6T7030INDO/ALLSCRSWABK	6	7/0.30	0.4	12.1	0.9	13.9	16.1	38.4	55.3
INS8T7030INDO/ALLSCRSWABK	8	7/0.30	0.4	13.1	0.9	14.9	17.3	38.4	64.8
INS10T7030INDO/ALLSCRSWABK	10	7/0.30	0.4	15.4	0.9	17.2	20.0	38.4	76.5
INS12T7030INDO/ALLSCRSWABK	12	7/0.30	0.4	15.9	0.9	17.7	20.5	38.4	83.8
INS16T7030INDO/ALLSCRSWABK	16	7/0.30	0.4	17.7	0.9	19.5	22.7	38.4	114.6
INS20T7030INDO/ALLSCRSWABK	20	7/0.30	0.4	19.2	0.9	21.7	24.9	38.4	130.8
INS24T7030INDO/ALLSCRSWABK	24	7/0.30	0.4	21.9	1.25	24.4	27.8	38.4	152.1
INS36T7030INDO/ALLSCRSWABK	36	7/0.30	0.4	25.6	1.25	28.1	31.7	38.4	220.5

1.5mm²

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
INS2T7050INDO/ALLSCRSWABK	2	7/0.50	0.4	11.0	0.9	12.8	14.8	13.8	46.6
INS3T7050INDO/ALLSCRSWABK	3	7/0.50	0.4	11.7	0.9	13.5	15.7	13.8	55.6
INS4T7050INDO/ALLSCRSWABK	4	7/0.50	0.4	12.8	0.9	14.6	16.8	13.8	65.1
INS6T7050INDO/ALLSCRSWABK	6	7/0.50	0.4	15.4	0.9	17.2	19.8	13.8	84.0
INS8T7050INDO/ALLSCRSWABK	8	7/0.50	0.4	16.7	0.9	18.5	21.5	13.8	100.3
INS10T7050INDO/ALLSCRSWABK	10	7/0.50	0.4	19.8	0.9	22.3	25.7	13.8	137.5
INS12T7050INDO/ALLSCRSWABK	12	7/0.50	0.4	20.5	1.25	23.0	26.4	13.8	150.4
INS16T7050INDO/ALLSCRSWABK	16	7/0.50	0.4	22.8	1.25	25.3	28.9	13.8	181.3
INS20T7050INDO/ALLSCRSWABK	20	7/0.50	0.4	24.9	1.25	27.4	31.0	13.8	235.5
INS24T7050INDO/ALLSCRSWABK	24	7/0.50	0.4	29.0	1.6	32.2	35.8	13.8	277.1
INS36T7050INDO/ALLSCRSWABK	36	7/0.50	0.4	33.3	1.6	36.5	40.5	13.8	439.3