

INDIVIDUALLY & OVERALL SCREENED TRIAD CABLES

INSTRUMENTATION  
 CABLES

# INDIVIDUALLY & SCREENED 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
- 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
- LR 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	Nom. Overall Dia. mm	Conductor resistance @20°C Ω/km	Approx. Mass Kg/100m
INS2T7030INDO/ALLSCRBK	2	7/0.30	0.4	8.4	38.4	7.8
INS3T7030INDO/ALLSCRBK	3	7/0.30	0.4	8.9	38.4	10.3
INS4T7030INDO/ALLSCRBK	4	7/0.30	0.4	10.0	38.4	13.5
INS6T7030INDO/ALLSCRBK	6	7/0.30	0.4	12.3	38.4	20.1
INS8T7030INDO/ALLSCRBK	8	7/0.30	0.4	13.5	38.4	25.9
INS10T7030INDO/ALLSCRBK	10	7/0.30	0.4	16.2	38.4	32.6
INS12T7030INDO/ALLSCRBK	12	7/0.30	0.4	16.7	38.4	37.7
INS16T7030INDO/ALLSCRBK	16	7/0.30	0.4	18.9	38.4	49.8
INS20T7030INDO/ALLSCRBK	20	7/0.30	0.4	20.4	38.4	59.9
INS24T7030INDO/ALLSCRBK	24	7/0.30	0.4	23.3	38.4	74.8
INS36T7030INDO/ALLSCRBK	36	7/0.30	0.4	26.8	38.4	105.8

1.5mm<sup>2</sup>

Part Number	Pairs / Triads	Cond. No./Dia. mm	Insulation Thickness mm	Nom. Overall Dia. mm	Conductor resistance @20°C Ω/km	Approx. Mass Kg/100m
INS2T7050INDO/ALLSCRBK	2	7/0.50	0.4	11.0	13.8	152
INS3T7050INDO/ALLSCRBK	3	7/0.50	0.4	11.9	13.8	21.2
INS4T7050INDO/ALLSCRBK	4	7/0.50	0.4	13.0	13.8	26.9
INS6T7050INDO/ALLSCRBK	6	7/0.50	0.4	16.0	13.8	39.9
INS8T7050INDO/ALLSCRBK	8	7/0.50	0.4	17.7	13.8	52.5
INS10T7050INDO/ALLSCRBK	10	7/0.50	0.4	21.2	13.8	66.8
INS12T7050INDO/ALLSCRBK	12	7/0.50	0.4	21.9	13.8	77.6
INS16T7050INDO/ALLSCRBK	16	7/0.50	0.4	24.4	13.8	101.1
INS20T7050INDO/ALLSCRBK	20	7/0.50	0.4	26.5	13.8	123.3
INS24T7050INDO/ALLSCRBK	24	7/0.50	0.4	30.2	13.8	147.0
INS36T7050INDO/ALLSCRBK	36	7/0.50	0.4	34.9	13.8	215.4

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