

OVERALL SCREENED TRIAD CABLES

INSTRUMENTATION  
 CABLES

# OVERALL 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**  
 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  
**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	Nom. Overall Dia. mm	Conductor resistance @20°C Ω/km	Approx. Mass Kg/100m
INS1T7030O/ALLSCRBK	1	7/0.30	0.4	5.3	38.4	3.6
INS2T7030O/ALLSCRBK	2	7/0.30	0.4	8.0	38.4	7.0
INS3T7030O/ALLSCRBK	3	7/0.30	0.4	8.5	38.4	9.3
INS4T7030O/ALLSCRBK	4	7/0.30	0.4	9.6	38.4	12.0
INS6T7030O/ALLSCRBK	6	7/0.30	0.4	11.8	38.4	17.9
INS8T7030O/ALLSCRBK	8	7/0.30	0.4	12.9	38.4	22.5
INS10T7030O/ALLSCRBK	10	7/0.30	0.4	15.1	38.4	29.0
INS12T7030O/ALLSCRBK	12	7/0.30	0.4	16.0	38.4	34.8
INS16T7030O/ALLSCRBK	16	7/0.30	0.4	17.7	38.4	44.2
INS20T7030O/ALLSCRBK	20	7/0.30	0.4	19.5	38.4	54.3
INS24T7030O/ALLSCRBK	24	7/0.30	0.4	22.3	38.4	65.3
INS36T7030O/ALLSCRBK	36	7/0.30	0.4	25.6	38.4	93.6

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
INS1T7050O/ALLSCRBK	1	7/0.50	0.4	6.6	13.8	7.0
INS2T7050O/ALLSCRBK	2	7/0.50	0.4	10.6	13.8	14.2
INS3T7050O/ALLSCRBK	3	7/0.50	0.4	11.5	13.8	19.8
INS4T7050O/ALLSCRBK	4	7/0.50	0.4	12.6	13.8	25.1
INS6T7050O/ALLSCRBK	6	7/0.50	0.4	15.5	13.8	37.3
INS8T7050O/ALLSCRBK	8	7/0.50	0.4	17.1	13.8	49.1
INS10T7050O/ALLSCRBK	10	7/0.50	0.4	20.3	13.8	62.4
INS12T7050O/ALLSCRBK	12	7/0.50	0.4	21.2	13.8	72.6
INS16T7050O/ALLSCRBK	16	7/0.50	0.4	23.6	13.8	94.6
INS20T7050O/ALLSCRBK	20	7/0.50	0.4	25.6	13.8	115.3
INS24T7050O/ALLSCRBK	24	7/0.50	0.4	29.1	13.8	137.4
INS36T7050O/ALLSCRBK	36	7/0.50	0.4	33.8	13.8	201.4