

# OVERALL SCREENED 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 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**

- These cables are not suitable for direct connection to mains supply.
- Nominal voltage rating - AC/DC 110/150V
- Not all sizes and colours are available ex-stock, minimum order quantity will apply for some items.
- Special sheath colours on request.
- Cables are Green Star / PVC best practice certified.

### 0.5mm<sup>2</sup>

Part Number	Pairs	Cond. No./Dia. mm	Insulation Thickness mm	Nom. Overall Dia. mm	Conductor resistance @20°C Ω/km	Approx. Mass Kg/100m
INS1P7030O/ALLSCRBK	1	7/0.30	0.4	5.0	38.4	28
INS2P7030O/ALLSCRBK	2	7/0.30	0.4	7.0	38.4	5.1
INS3P7030O/ALLSCRBK	3	7/0.30	0.4	7.7	38.4	7.0
INS4P7030O/ALLSCRBK	4	7/0.30	0.4	8.4	38.4	8.6
INS6P7030O/ALLSCRBK	6	7/0.30	0.4	10.2	38.4	12.4
INS8P7030O/ALLSCRBK	8	7/0.30	0.4	11.4	38.4	16.6
INS10P7030O/ALLSCRBK	10	7/0.30	0.4	13.5	38.4	21.0
INS12P7030O/ALLSCRBK	12	7/0.30	0.4	13.9	38.4	23.9
INS16P7030O/ALLSCRBK	16	7/0.30	0.4	15.8	38.4	31.7
INS20P7030O/ALLSCRBK	20	7/0.30	0.4	17.4	38.4	39.6
INS24P7030O/ALLSCRBK	24	7/0.30	0.4	19.9	38.4	47.7
INS36P7030O/ALLSCRBK	36	7/0.30	0.4	22.8	38.4	67.5
INS50P7030O/ALLSCRBK	50	7/0.30	0.4	26.0	38.4	93.7

### 1.5mm<sup>2</sup>

Part Number	Pairs	Cond. No./Dia. mm	Insulation Thickness mm	Nom. Overall Dia. mm	Conductor resistance @20°C Ω/km	Approx. Mass Kg/100m
INS1P7050O/ALLSCRBK	1	7/0.50	0.4	6.1	13.8	5.3
INS2P7050O/ALLSCRBK	2	7/0.50	0.4	9.6	13.8	10.3
INS4P7050O/ALLSCRBK	4	7/0.50	0.4	11.4	13.8	17.8
INS6P7050O/ALLSCRBK	6	7/0.50	0.4	14.0	13.8	26.6
INS8P7050O/ALLSCRBK	8	7/0.50	0.4	15.2	13.8	33.5
INS10P7050O/ALLSCRBK	10	7/0.50	0.4	18.2	13.8	43.0
INS12P7050O/ALLSCRBK	12	7/0.50	0.4	19.0	13.8	50.6
INS16P7050O/ALLSCRBK	16	7/0.50	0.4	21.3	13.8	65.8
INS20P7050O/ALLSCRBK	20	7/0.50	0.4	23.4	13.8	80.9
INS24P7050O/ALLSCRBK	24	7/0.50	0.4	27.0	13.8	97.4
INS36P7050O/ALLSCRBK	36	7/0.50	0.4	29.7	13.8	140.3
INS50P7050O/ALLSCRBK	50	7/0.50	0.4	34.2	13.8	194.8