

## Technical Specifications

### Construction

<b>Length</b>	152.5M /500ft
<b>Conductors</b>	<ul style="list-style-type: none"> <li>16AWG 4 core 99.99% Oxygen Free, Annealed Stranded Copper</li> <li>(65 strands) 0.16mm +/-0.008mm</li> </ul>
<b>Jacket</b>	<ul style="list-style-type: none"> <li>Low Smoke Zero Halogen</li> <li>Colours: Black (RAL 9011), Purple (RAL 4005), Yellow (RAL 1018)</li> <li>Outer Diameter 7.00mm +/-0.30mm</li> <li>Nominal Thickness 0.60mm</li> <li>Min. Thickness at any point 0.48mm</li> </ul>
<b>Filler</b>	Nylon ripcord
<b>Insulation</b>	<ul style="list-style-type: none"> <li>Conductor Colours: Black, Red, Green and White</li> <li>Outer Diameter 2.3mm +/-0.10mm</li> <li>Average Thickness 0.40mm</li> <li>Min. Thickness at any point 0.32mm</li> </ul>
<b>Jacket Marking</b>	TIERIUM 16AWG 4C OXYGEN FREE COPPER LOW SMOKE ZERO HALOGEN SPEAKER CABLE - ROOM ID: A1 A2 A3 A4 A5 - B1 B2 B3 B4 B5 - C1 C2 C3 C4 C5 - XXXM

### Performance

#### Power Loss by Cable Length

4Ω Speaker				8Ω Speaker				16Ω Speaker			
10m (33ft)	20m (66ft)	40m (132ft)	80m (263ft)	10m (33ft)	20m (66ft)	40m (132ft)	80m (263ft)	10m (33ft)	20m (66ft)	40m (132ft)	80m (263ft)
6%	12%	22%	35%	3%	6%	12%	22%	2%	3%	6%	12%

#### Maximum Cable Length by Allowed Power Loss (dB)

4Ω Speaker				8Ω Speaker				16Ω Speaker			
-0.5db (11%)	-1.0db (21%)	-2.0db (37%)	3.0db (50%)	-0.5db (11%)	-1.0db (21%)	-2.0db (37%)	3.0db (50%)	-0.5db (11%)	-1.0db (21%)	-2.0db (37%)	3.0db (50%)
18m (59ft)	38m (124ft)	85m (280ft)	145m (476ft)	36m (118ft)	76m (249ft)	171m (561ft)	291m (955ft)	71m (233ft)	151m (496ft)	342m (1122ft)	581m (1906ft)

#### Maximum Cable Length by Allowed Power Loss (%)

4Ω Speaker				8Ω Speaker				16Ω Speaker			
2.5% (-0.1db)	5.0% (-0.2db)	7.5% (-0.3db)	10% (-0.5db)	2.5% (-0.1db)	5.0% (-0.2db)	7.5% (-0.3db)	10% (-0.5db)	2.5% (-0.1db)	5.0% (-0.2db)	7.5% (-0.3db)	10% (-0.5db)
3.7m (12ft)	7.7m (25ft)	11.8m (36ft)	16.2m (53ft)	7.5m (51ft)	15.4m (78ft)	23.7m (78ft)	32.4m (106ft)	15m (49ft)	30.7m (101ft)	47.3m (155ft)	64.9m (213ft)

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## Electrical & Physical Properties

<b>Rating &amp; Temperature</b>	75°C, 300V
<b>Conductor Resistance</b> (Ohm/Km/20 °C Max)	13.70 Ω/km
<b>Insulation Resistance</b>	100 Mega Ohm. Km at 20°C (Minimum)
<b>Dielectric Strength</b> (Under water)	AC 500 V/1 Minute (Passed)
<b>Spark Test</b>	2.5 KV for 0.15 Seconds (Passed)

<b>Insulation</b>	Unaged	Tensile Strength	1.05 Kg/mm2 (Minimum)
		Elongation	100% (Minimum)
	Aged	Tensile Strength	Unaged Min. 70% (100± 1°C x 240 Hours)
		Elongation	Unaged Min. 65% (100± 1°C x 240 Hours)
<b>Jacket</b>	Unaged	Tensile Strength	1.05 Kg/mm2 (Minimum)
		Elongation	100% (Minimum)
	Aged	Tensile Strength	Unaged Min. 70% (100± 1°C x 240 Hours)
		Elongation	Unaged Min. 65% (100± 1°C x 240 Hours)

<b>Bending Radius</b>	15 * Φ (Minimum)
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## Packaging / Logistics

Jacket Colour	Part Number	EAN-13 Barcode	Gross Weight	Carton Dimensions	Palletisation
Black	SC-164-LSZH-152M-BK	9369998333837	12.6 Kg	(L) 42cm x (W) 41cm x (H) 26cm	Qty 30 Boxes
Purple	SC-164-LSZH-152M-PP	9369998171699			
Yellow	SC-164-LSZH-152M-YL	9369998247011			

## Environmental Compliance

<b>RoHS</b>	Yes
<b>REACH</b>	Yes
<b>Recyclable</b>	Yes (packaging, cardboard & plastic 100% recyclable)

<b>Country of Origin</b>	Vietnam (Designed in Australia)
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