

Technical Specifications

Construction

Length	305M / 1000ft
Conductors	<ul style="list-style-type: none"> 16AWG 2 core 99.99% Oxygen Free, Annealed Stranded Copper (65 strands) 0.16mm +/-0.008mm
Jacket	<ul style="list-style-type: none"> Low Smoke Zero Halogen Colours: Black (RAL 9011), Purple (RAL 4005), Yellow (RAL 1018) Outer Diameter 6.00mm +/-0.30mm Nominal Thickness 0.60mm Min. Thickness at any point 0.48mm
Filler	Nylon ripcord
Insulation	<ul style="list-style-type: none"> Conductor Colours: Black, Red, Green and White Outer Diameter 2.3mm +/-0.10mm Average Thickness 0.40mm Min. Thickness at any point 0.32mm
Jacket Marking	TIERIUM 16AWG 2C 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)

Copyright © 2022, TIERIUM PTY LTD. All rights reserved. TIERIUM, the TIERIUM logo are trademarks or registered trademarks of TIERIUM PTY LTD. Other product and company names mentioned herein may be trademarks of their respective companies. TIERIUM may make changes to specification and product descriptions at anytime, without notice.

Electrical & Physical Properties

Rating & Temperature 75°C, 300V

Conductor Resistance
(Ohm/Km/20 °C Max) 13.70 Ω/km

Insulation Resistance 100 Mega Ohm. Km at 20°C (Minimum)

Dielectric Strength
(Under water) AC 500 V/1 Minute (Passed)

Spark Test 2.5 KV for 0.15 Seconds (Passed)

Insulation	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)	
Jacket	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)	

Bending Radius 15 * Φ (Minimum)

Packaging / Logistics

Jacket Colour	Part Number	EAN-13 Barcode	Gross Weight	Carton Dimensions	Palletisation
Black	SC-162-LSZH-305M-BK	9369998422814	14.8 Kg	(L) 42cm x (W) 41cm x (H) 26cm	Qty 30 Boxes
Purple	SC-162-LSZH-305M-PP	9369998171682			
Yellow	SC-162-LSZH-305M-YL	9369999813192			

Environmental Compliance

RoHS Yes

REACH Yes

Recyclable Yes (packaging, cardboard & plastic 100% recyclable)

Country of Origin Vietnam (Designed in Australia)

Copyright © 2022, TIERIUM PTY LTD. All rights reserved. TIERIUM, the TIERIUM logo are trademarks or registered trademarks of TIERIUM PTY LTD. Other product and company names mentioned herein may be trademarks of their respective companies. TIERIUM may make changes to specification and product descriptions at anytime, without notice.