

International Accreditation Service  
**CERTIFICATE OF ACCREDITATION**

*This is to signify that*

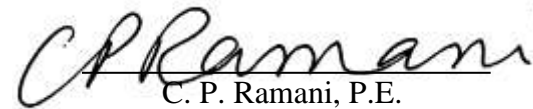
**MIDAL CABLES LIMITED**  
BUILDING 744, ROAD 5128, BLOCK 951, ASKAR  
PO BOX 5939  
MANAMA, KINGDOM OF BAHRAIN

Testing Laboratory TL-604

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing April 10, 2014, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen  
Vice President



C. P. Ramani, P.E.  
President



Print Date: 4/16/2014

*(see attached scope of accreditation for fields of testing and accredited test methods)*

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation.  
See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.

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International Accreditation Service  
**SCOPE OF ACCREDITATION**

Midal Cables Ltd. TL-604

Midal Cables Ltd.  
 Building 744, Road 5128, Block 951  
 Manama, Kingdom of Bahrain

Sreedharan K. Nair  
 Manager, Quality Assurance & Quality Control  
 +973 17 832832

FIELDS OF TESTING	ACCREDITED TEST METHODS
Chemistry – Molten Metal	ASTM Standards E716/E1251 (Al, Si, Fe, Cu, Mn, Mg, Zn, Ti, Na, B, V, Zr, Sr, Ga)
Mechanical/Physical Tests	<p><b>Rods, Wire, Cables and Strands</b></p> <p>Dimensional- Midal WI- Q-2-8 and WI-Q-2-25( Based on Specifications: AS 1531, IEC 62004, IEC 62420, CAN-CSA C 61089, AS 3607, ASTM Standards B 231, B 232, B 399, B 416, B 498, B 502, B 524, B 549, B 711, and B 856, EN 50182 and IEC 61089)</p> <p>Linear Mass - Midal WI-Q-2-23 (Based on Specifications: AS 1531, IEC 62004, IEC 62420, CAN-CSA C 61089, AS 3607, ASTM Standards B 231, B 232, B 399, B 416, B 498, B 502, B 524, B 549, B 711, and B 856, EN 50182 and IEC 61089)</p> <p>Surface roughness - Midal WI-Q-2-42 (Based on Specifications: IEC 61089, EN 50182, AS 3822, CAN-CSA C 61089, IEC 62004, IEC 62420,</p>

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FIELDS OF TESTING	ACCREDITED TEST METHODS
Mechanical/Physical Tests (continued)	<p>ASTM Standards B 231, B 232, B 399, B 416, B 498, B 502, B 524, B 549, B 711, B 856 and B 857)</p> <p>Tensile and Elongation – ASTM Standard B 557, IEC 61089, (Based on Specifications, EN 50182, CAN-CSA C 61089, IEC 62004, IEC 62420 and AS 3822)</p> <p>Inertness – IEC61089 Clause 5.4.7 and EN 50182 Clause 5.5.7 (Based on AS 3822, CAN-CSA C 61089, IEC 62004, IEC 62420, ASTM Standards B 231, B 232, B 399, B 416, B 498, B 502, B 524, B 549, B 711, B 856 and B 857)</p> <p><b>Torsion Test</b> ISO 7800 and AS 2505.5</p> <p><b>Wrap Test</b> AS 2505.2 (Based on Specifications AS 1531 and AS 3607), ISO 7802 (Based on Specification EN 50182)</p> <p><b>Coating (Galvanizing) Thickness</b> EN 10244-2 and ASTM Standard A 90</p>

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<b>FIELDS OF TESTING</b>	<b>ACCREDITED TEST METHODS</b>
Mechanical/Physical Tests (continued)	<b>Cladding Thickness</b> WI-Q-2-36 (Based on IEC 61234, ASTM Standard B 415 and AS 1222.2) <b>Conductor Grease</b> ASTM Standards D 217, D 566 and ISO 2137
Electrical Resistance	ASTM Standard B 193 and Midal WI-Q-2-35 (Based on Specifications IEC 61089, EN 50182, AS 3822, CAN-CSA C 61089, IEC 62004, IEC 62420)

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