Certificate Number: 14-SG1242236-PDA
08/OCT/2014

Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 14/DEC/2015. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 02/OCT/2019 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

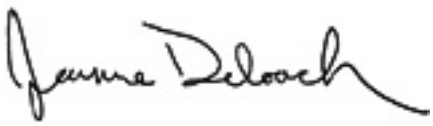
Product Name: Shipboard Power And Control Cable
Model Name(s): MC-210 & MC-210Q , MC-210C , MC-210T

Presented to:
WILSON CABLES PRIVATE LIMITED
NO. 142 GUL CIRCLE
JURONG INDUSTRIAL ESTATE
SINGAPORE
Singapore

Intended Service:	Lighting, Control and Power wiring for offshore and marine installations.
Description:	Stranded, Plain Annealed Copper Conductor, XLPE Insulated and PVC Sheathed (MC-210) & Stranded, Plain Annealed Copper Conductor, XLPE Insulated, PVC Inner Sheath (Extruded), or PVC Inner Covering (Extruded) or Inner Covering (Lapped With Suitable Tapes), Wire Braided (Steel or Copper or Tinned Copper Wires) and PVC Sheathed (MC-210Q , MC-210C , MC-210T) Shipboard Power And Control Cables.
Tier:	2
Ratings:	0.6/1kV; -20 degree C to IEC 60811-1-4, Maximum conductor temperature 90 degree C.
Service Restrictions:	Unit certification is not required. IEC 60092-350 (2008) does not include tests for determination of enhanced cold properties, oil resistance and resistance to drilling fluids required for this product. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
Comments:	The manufacturer has provided a declaration about the control of, or the lack of asbestos in this product.
Notes / Documentation:	This Product Design Assessment (PDA) is valid only for products intended for use

	on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.
Term of Validity:	This Product Design Assessment (PDA) Certificate 14-SG1242236-PDA, dated 03/Oct/2014 remains valid until 02/Oct/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.
ABS Rules:	- Steel Vessel Rules (2014) 1-1-4/7.7, 1-1-A3 and A4, 4-8-3/9.1, 4-8-3/9.3, 4-8-3/9.5, 4-8-3/9.9 - Steel Vessels Under 90 Meters (295 Feet) in Length (2014) 1-14/7.7, 1-1-A3 and A4, 4-6-4/13.1.1, 4-6-4/13.1.2, 4-6-4/13.1.4 - Facilities on Offshore Installations (2014) 1-1-4/9.7, 1-1-A2 and A3, 3-6/13.1, 3-6/13.5, 3-6/13.7 - Offshore Support Vessels (2014) 1-1-4/7.7, 1-1-A3 and A4, 4-8-3/9.1, 4-8-3/9.3,4-8-3/9.5,4-8-3/9.9 - Mobile Offshore Drilling Units Rules (2014) 1-1-4/9.7, 1-1-A2 and A3, 4-3-4/7.1.1, 4-3-4/7.1.2, 4-3-4/7.1.4 - Aluminum Vessels (1975) 1-1-4/7.7, 1-1-A3 and A4 - Steel Vessels for Service on Rivers and Intracoastal Waterways (2014) 1-1-4/7.7, 1-1-A3 and A4 , 4-5-4/13
National Standards:	
International Standards:	IEC 60092-353(2011), IEC 60092-350(2008), IEC 60332-3-22 Cat A (2008), IEC 60811-1-4
Government Authority:	
EUMED:	
Others:	

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	14-SG1242236-PDA	03/OCT/2014	02/OCT/2019



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.