CERTIFICATE NUMBER
17-SG1593567-PDA

DATE
20 Jan 2017

ABS TECHNICAL OFFICE
Singapore Engineering Services

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of

YESHA ELECTRICALS PVT. LTD.

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Cable Clips, Ties, Heads & Metal Banding**

Model: **SS, ST, RCT**

This Product Design Assessment (PDA) Certificate 17-SG1593567-PDA, dated 20/Jan/2017 remains valid until 19/Jan/2022 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.

AMERICAN BUREAU OF SHIPPING

Panagiotis Kotsidas
Engineer/Consultant

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Tier: 2 - PDA Issued

Product: **Cable Clips, Ties, Heads & Metal Banding**
Model: **SS, ST, RCT**
Intended Service:
Marine and Offshore Application - Indoor/Outdoor Bundle Cable in Trays

Description:
SS: Stainless Steel Cable Tie (Roller Ball Type/Roller Ball Zig-Zag Type) (Coated/Uncoated)
ST: Stainless Steel Cable Tie (Ladder Type) (Coated/Uncoated)
RCT: Stainless Steel Cable Tie (Releasable Type) (Coated / Uncoated)

Rating:
See Attachment

Service Restriction:
Unit certification is not required for this product.

Comments:
1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. The installation is to be carried out in such a manner that the cables are fixed tight without their covering being damaged to the Surveyor's satisfaction.

Notes/Drawing/Documentation:
1. Report No. E193947-19990420 (All models), Certificate of Compliance from UL dated 17 Dec 2013, Revision: 0, Pages: 3;
2. Report No. IPOLWO0059078-1 (Roller ball, composite coated), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 8;
3. Report No. IPOLWO0059078-10 (Ladder, metallic), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 6;
4. Report No. IPOLWO0059078-11 (Ladder, composite coated), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 8;
5. Report No. IPOLWO0059078-12 (Ladder, metallic), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 6;
6. Report No. IPOLWO0059078-13 (Releasable, composite coated), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 4;
7. Report No. IPOLWO0059078-14 (Releasable, metallic), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 3;
8. Report No. IPOLWO0059078-15 (Releasable, composite coated), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 7;
9. Report No. IPOLWO0059078-16 (Releasable, metallic), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 3;
10. Report No. IPOLWO0059078-2 (Roller ball, metallic), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 6;
11. Report No. IPOLWO0059078-3 (Roller ball, composite coated), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 8;
12. Report No. IPOLWO0059078-4 (Roller ball, metallic), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 6;
13. Report No. IPOLWO0059078-5 (Roller ball zig zag, composite coated), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 4;
14. Report No. IPOLWO0059078-6 (Roller ball zig zag, metallic), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 3;
15. Report No. IPOLWO0059078-7 (Roller ball zig zag, composite coated), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 4;

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16. Report No. IPOLWO0059078-8 (Roller ball zig zag, metallic), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 3;
17. Report No. IPOLWO0059078-9 (Ladder, composite coated), Test report from Electrical Research and Development Association dated 17 Mar 2008, Revision: 0, Pages: 8;
18. Drawing No. YM-6-522,524,708,709,795,796,797,798,799,800,801,802, , Vendor catalogue, Revision: 0, Pages: 12;

Terms of Validity:
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STANDARDS

ABS Rules:
1. ABS Rules for Building and Classing Steel Vessels (2017): 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-4/21.9.3(a);
2. ABS Rules for Building and Classing Offshore Support Vessel (2017): 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-4/21.9.3(a);
3. ABS Rules for Building and Classing Steel Vessels under 90 Meters in Length (2017): 1-1-4/11.9, 1-1-Appendix 2 and 3, 4-6-3/5.9.1(c);
4. ABS Rules for Building and Classing Mobile Offshore Drilling Units (2017): 1-1-4/9.7, 1-1-Appendix 2 and 3, 7-1-5/5.9.1(b);
5. ABS Rules for Building and Classing High Speed Craft (2017): 1-1-4/11.9, 1-1-Appendix 2 and 3; 4-6-3/5.9.1(c);
6. ABS Facilities on Offshore Installation Rules (2017): 1-1-4/9.7, 1-1-Appendix 2 and 3;
7. ABS Steel Barge Rules (2017): 1-1-4/7.7, 1-1-A3 and A4;
8. ABS Rules For Building And Classing Steel Vessels For Service On Rivers & Intracoastal Waterways (2017): 1-1-4/7.7, 1-1-A3 and A4, 4-5-3/5.9.1(c);

National:
UL listed File No E193947 dated 08 November 2016 (UL 62275)

International:
IEC 62275: 2006

Government:
NA

EUMED:
NA

OTHERS:
NA