



Confirmation of Product Type Approval

Company Name: YOFC POLIRON INDUSTRIA E COMERCIO DE CABOS ESPECIAIS LTDA

Address: AV. MARIA LEONOR, NO 1222 - PREDIO 1-PARQUE REID SP 09920-080 Brazil

Product: Cable, Instrumentation and Communication

Model(s): MA NV ES, HM NV ES, ITM NV ES, TM NV ES, ITA NV ES, TA NV ES

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	18-RJ1810185-PDA	27-DEC-2018	26-DEC-2023
Manufacturing Assessment (MA)	19-SP3647037	14-MAY-2019	13-MAY-2024
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Ship and Offshore Installations.

Description

Armored or unarmored, flame retardant, halogen free, low smoke, fire resistant instrumentation electric cables.

Ratings

150/250V(300V); (pairs; triads; quads) x (0.5 mm²; 0.75 mm²; 1 mm²; 1.5 mm²; 2.5 mm²).

Temperature class: 90°C

Service Restrictions

1) Unit Certification is not required for this product.

2) Unit Certification is required where the cables are used for propulsion systems. All propulsion cables, other than internal wiring in control gears and switchboards, are to be subjected to dielectric and insulation tests in the presence of the Surveyor (See 4-8-5/5.17.11 of 2018 Steel Vessels Rules.)

Comments

- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

- The following markings are to be provided in accordance with IEC 60092-350: Identification of origin (manufacturer's name or trade name); rated voltage (Uo/U) and construction (number of cores and cross

sectional area of conductor).

Notes, Drawings and Documentation

Belden Type Approval - Tests Reports

Technical Clarification

Request for PDA Revalidation

Supporting documents from previous review:

Cable Specification - Instrumentation and Communication Cables

Cable Specification - Instrumentation and Communication Cables - Fire Resistant

Cable Specification - General Control Cables

Cable Specification - General Control Cables - Fire Resistant

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 26/Dec/2023 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2018 Steel Vessels Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/9

2018 Mobile Offshore Drilling Units Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-4/7

International Standards

IEC 60092-376: 2017

IEC 60092-350: 2014

IEC 60092-360: 2014

IEC 60332-3-22: 2018

IEC 60754-1: 2013

IEC 60754-2: 2011

IEC 61034-1: 2013

IEC 61034-2: 2013

IEC 60331-1: 2018

IEC 60331-11: 2009

IEC 60331-21 2009

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read "James J. Walsh".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 26-Jan-2022 11:05

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 is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. 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.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

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.

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.