

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Cable Tray**

with type designation(s)
P04HR cable tray

Issued to

Cooper B-Line, Inc.
Highland, IL, USA

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Material steel, stainless steel
Suitable for open deck yes

Issued at **Høvik** on **2018-11-13**

This Certificate is valid until **2023-11-12**.

DNV GL local station: **Houston, Approval CMC**

for **DNV GL**

Approval Engineer: **Georgy Abramenko**

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Marta Alonso Pontes
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-028887-1**
Certificate No: **TAE000039R**

Manufacturing locations

Name of company:	Address:
Eaton Troy IL	816 Lions Dr, Troy, IL 62294 United States of America
Eaton Reno NV	13755 Stead Blvd, Reno, NV 89506 United States of America
Eaton Sherman TX	4900 Marshall St, Sherman, Tx 75090 United States of America
SNC CO LTD	201, Yuha-ro, Gimhae-city, Gyeongnam, Korea 50970
Suzhou Ontop Mechanical & Electrical Equipment Co. Ltd.	No.588 Jiangxing East Road, Wjiang Economic and Technology Development Zone, Suzhou Jiangsu, China
Eaton Dammam	111 Jubail St., Dammam 2-nd Industrial City, P.O. Box-70160, Al-Kobar 31952, Saudi Arabia
Eaton Calgary	Unit 107, 2760 45 AVE SE, Calgary, AB T2B 3M1
IME Cable Support System SDN BHD	Lot 775, Jalan Subang 4, Taman Industri Sg Penaga, 47610 Subang Jaya, Selangor, Malaysia.

Product description

Cable tray is made of carbon steel (HRP) or stainless steel (HRSS).

Width [mm]: 50 - 900
Height [mm]: 40, 50, 75, 100
Thickness [mm]: 1.5; 2
Standard length [m]: 3

Material:	Carbon steel, stainless steel
Temperature:	Min. : -60 °C Max. : 90 °C
Safe working load (SWL):	53-82 kg/m (steel); 68-106 kg/m (stainless steel)
Support spacing:	3 m

Application/Limitation

To be installed in accordance with the manufacturer's instructions and DNV-GL rules.

The listed SWL data is based on 3m testing with a DNV-GL recommended support span of 2m when installed onboard.

Type Approval documentation

Tests carried out

Tests according to IEC 61537-2006

Marking of product

Manufacturer – type designation

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
 - Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
 - Review of type approval documentation
 - Review of possible change in design, materials and performance
 - Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.
- Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE