DNV·GL

Certificate No:
TAE000013M

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Clip, Saddle, Band

with type designation(s)
MLT and IMLT

Issued to
Panduit Corporation
Electrical Headquarters
16530 163rd Street
Lockport, IL 60441, United States

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

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

This Certificate is valid until **2020-01-19**.

Issued at **Høvik** on **2016-05-19**

for **DNV GL**

DNV GL local station: **New York**

Approval Engineer: **Marta Alonso Pontes**

Marit Laumann
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.

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Job Id: **262.1-005980-9**
Certificate No: **TAE000013M**

Name and place of manufacturer

Panduit Corp
10500 W. 167th St.
Orland Park, IL 60467
USA

Panduit Communication Components Co LTD
Wuxi Singapore Industrial Park
11 Xin Dou Rd
Wuxi, Jiangsu 214028
China

Product description

Type: MLT and IMLT
Material: Stainless steel. AISI 304 or 316

Loop tensile strength:

Part numbers with MLT Prefix	
Loop tensile strength, 4.6 mm width	890 N
Loop tensile strength, 6.4 mm width	1112 N
Loop tensile strength, 7.9 mm width	2000 N
Loop tensile strength, 12.7 mm width, .25 mm thick	2670 N
Loop tensile strength, 12.7 mm width, .25 mm thick, Double	3560 N
Loop tensile strength, 12.7 mm width, .38 mm thick	3115 N
Loop tensile strength, 12.7 mm width, .38 mm thick, Double	4450 N
Loop tensile strength, 16 mm width	4005 N
Loop tensile strength, 16 mm width, Double	5340 N
Loop tensile strength, 4.6 mm width, fully coated	445 N
Loop tensile strength, 7.9 mm width, fully coated	1112 N
Loop tensile strength, 12.7 mm width, fully coated	1335 N
Loop tensile strength, 15.9 mm width, fully coated	2000 N
Loop tensile strength, 7.9 mm width, selectively coated	1112 N
Part numbers with IMLT Prefix	
Loop tensile strength, 4.6 mm width	556 N
Loop tensile strength, 7.9 mm width	890 N
Max. tested operating temperature	n/a
Min. tested operating temperature	n/a
Min. tested installation temperature	n/a
Resistance to UV light	Uncoated ties are UV resistant
Resistance to corrosion	Resistant - made of 304 or 316 steel

Approved for fixing of single cables. (bunching diameter up to approx. 250 mm).

Type designation: Standard
Thickness 0.25 mm and width 4.6 mm.
MLT*S-CP
MLT*S-CP316
MLT*WS-LP
MLT*WS-LP316
MLTFC*S-CP316
IMLT*S-C
IMLT*S-C6L
IMLTFC*S-C6L

where * designates a variable cable tie length for variable sized cable bundles.

Approved for fixing of single cables and small bunches of cables
(bunching diameter up to approx. 250 mm).

Type designation: Light Heavy
Thickness 0.25 mm and width 6.4 mm.
MLT*LH-LP
MLT*LH-LP316
MLT*WLH-LP
MLT*WLH-LP316

Approved for fixing of single cables and small bunches of cables (bunching diameter up to approx. 250 mm).

Type designation: Heavy
Thickness 0.25 mm and width 7.9 mm.
MLT*H-LP
MLT*H-LP316
MLT*WH-LP
MLT*WH-LP316
MLT*WH-TL
MLT*WH-TL316
MLTFC*H-LP316
MLTC*H-LP316
IMLT*H-L
IMLT*H-L6L
IMLTFC*H-L6L

Metal locking tie extra heavy duty. Approved for fixing of single cables and small bunches of cables (bunching diameter up to approx. 250 mm).

Type designation: Extra Heavy
Thickness 0.25 mm and width 12.7 mm.
MLT*EH-LP
MLT*EH-LP316
MLT*DEH-Q
MLT*DEH-Q316
MLTFC*EH-LP316

Metal locking tie extra heavy duty. Approved for fixing of single cables and small bunches of cables (bunching diameter up to approx. 250 mm).

Type designation: Extra Heavy
Thickness 0.38 mm and width 12.7 mm.
MLT*EH15-Q
MLT*EH15-Q316
MLT*DEH15-Q
MLT*DEH15-Q316

Metal locking tie extra heavy duty. Approved for fixing of single cables and small bunches of cables (bunching diameter up to approx. 250 mm).

Type designation: Super Heavy
Thickness 0.38 mm and width 16.0 mm.
MLT*SH-LP
MLT*SH-LP316
MLT*DSH-Q
MLT*DSH-Q316
MLTFC*SH-LP316

Application/Limitation

Metal cable tie for fixing of cables, outdoor and indoor, on board ships and offshore units.
Only UV resistant cable ties to be used on open deck.

Type Approval documentation

Tests carried out

Type tests according to IEC 62275: Installation test. Loop tensile strength test for cable ties retaining 100% strength after testing. Resistance to corrosion

Marking of product

Manufacturer's name or trade mark – Manufacturing site - 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.

Assessment to be performed at least every second year.

END OF CERTIFICATE