

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Trunking System

with type designation(s)
07, 77 and 88

Issued to

UNEX APARELLAJE ELECTRICO, S.L.
L'Hospitalet de Llobregat, Barcelona, Spain

is found to comply with

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

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2024-04-25**.

Issued at **Høvik** on **2019-07-09**

DNV GL local station: **Barcelona**

for **DNV GL**

Approval Engineer: **Nicolay Horn**

Trond Sjøvåg
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.

Product description

Slotted cable trunking system intended for installation in cabinets:

Technical data:

Characteristics	07	77	88
Material	U23X	U23X	U43X
Min transport and storage temperature	-45 °C	-45 °C	-45°C
Min installation temperature	-25 °C	-	-
Maximum application temperature	+60 °C	+60 °C	+90 °C
Resistance to flame propagation	None-flame propagator	None-flame propagator	None-flame propagator
Electrical features	Without electrical cont.	Without electrical cont.	Without electrical cont.
Electrical insulating	With electrical insulation	With electrical insulation	With electrical insulation
Degree of protection by enclosure	IP30	-	-
Retention of the system access cover	Cover removable without the aid of a tool	Cover removable without the aid of a tool	Cover removable without the aid of a tool
Electrical protective separation	Without divider	-	-
Type	Type 1	-	-
Rated voltage	750 V	-	-
Protection against mechanical damage	IK04	-	-

Article No. 77			Article No. 88		Article No. 07
18.20.77	60.120.77	776040-06	25.20.88	80.40.88	25.20.07
25.20.77	80.30.77	776060-06	30.30.88	80.60.88	30.30.07
30.30.77	80.40.77	778030-06	40.20.88	80.80.88	40.30.07
40.20.77	80.60.77	778040-06	40.30.88	80.100.88	40.40.07
40.30.77	80.80.77	778060-06	40.40.88	80.120.88	40.60.07
40.40.77	80.100.77	778080-06	40.60.88	100.40.88	60.60.07
40.60.77	80.120.77	7780100-06	60.20.88	100.60.88	60.80.07
60.20.77	100.40.77	7780120-06	60.30.88	100.80.88	60.100.07
60.30.77	100.60.77		60.40.88	100.100.88	60.120.07
60.40.77	100.80.77		60.60.88		80.60.07
60.60.77	100.100.77		60.80.88		80.80.07
60.80.77	100.150.77		60.120.88		80.120.07
60.100.77			80.30.88		

Application / limitation

Environmental classes: Vibration: A, Temperature: B, Humidity: B

Job Id: **262.1-031378-1**
Certificate No: **TAE00003J8**

Type Approval documentation

Technical info:

Unex Technical specification Trunking 07 in U23X, Slotted trunking 77 in U23X and Slotted Trunking 88 in U43X halogen free.

Test Reports:

MBSL test report no. 19031 dated 2019-05-09, LGAI test report no. 111.535/10.1992, 106.246/01.1992, VDE Licence nos 127531, 127979, BV cert no. DME79324613/02.11993 and DME79324614/02.1993. BM.si report no. 00182/17 (15.07.09, 28.07.09, 21.09.09), no. 120 (04.01.13)

Tests carried out

Tests in accordance with DIN/EN 50085-2-3 (2011), EN 50085-2-3 (2010) for Slotted trunking 77/88 and EN 50085-2-1(2006) for Trunking 07.

Marking of product

Company Name, 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 Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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 2 and 3.5 year and at renewal.

END OF CERTIFICATE