# **Test Report of the Manufacturer**



Generated on 08.12.2016 by KJ

**MV Terminal** 

## **MAXI MV Terminal**

Part no.: S05635



drawing not binding

DEHN + SÖHNE GmbH + Co KG

Hans Dehn-Str. 1 92318 Neumarkt Germany

update: 2016-11-09

Test of the Lightning Current Carrying Capability according to EN 62561-1 DIN VDE

0185-561-1



Component: MAXI MV Terminal Part No.: S05635 MatNo.: 3005635 Material: hot-galvanized steel	Tightening torque 1.) M12 - 35 Nm of the screws:
Test arrangement according to EN 62561-1 Annex B	B02 B03
	Connected conductor (1): round wire 8 aluminium Connected conductor (2): round wire 16 aluminium
Precondition/Ageing according to Annexes C	Overground application C1 🗹 C2 🗹 Underground application D
Lightning current test according to DIN EN 62561-1 section 6.3	3 lightning current loads Class H ☑ 100 kA (10/350)
Assessment after lightning current test according to DIN EN 62561-1 section 6.3	$\begin{tabular}{lll} \hline \mbox{\it passed} \\ \hline \mbox{\it Transient} & \mbox{\it Specified value:} \le 1 \ m\Omega \\ \hline \mbox{\it resistance:} & \mbox{\it } \\ \hline \mbox{\it description} & \mbox{\it constant} \\ \hline \mbox{\it description} & \mbox{\it description} \\ \hline \mbox{\it description} & \it descriptio$
Static-mechanical tests according to DIN EN 62561-1 section 6.4:	☐ not intended for receiving static loads
Releasing torque of the screws:	☑ passed
Visual check:	☑ passed

#### Assessment:

Thus, the device has passed the test according to EN 62561-1-DIN VDE 0185-561-1 and has been classified in class H.

Hurzinger J.
Test Engineer

Test Engineer

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Test arrangement according to EN 62561-1 Annex B	B02 B03
	Connected conductor (1): round wire 8 hot-galvanized steel Connected conductor (2): round wire 16 hot-galvanized steel
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Assessment:

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Test arrangement according to EN 62561-1 Annex B	B01 B04
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Precondition/Ageing according to Annexes C	Overground application C1 🗹 C2 🗹 Underground application D
Lightning current test according to DIN EN 62561-1 section 6.3	3 lightning current loads Class H ☑ 100 kA (10/350)
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Static-mechanical tests according to DIN EN 62561-1 section 6.4:	☐ not intended for receiving static loads
Releasing torque of the screws:	<b>⊠</b> passed
Visual check:	<b>☑</b> passed

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Test Engineer

Remark: Since the application is a tear off screw, it is not possible to prove a loosening torque of the screw.

Test Engineer

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Static-mechanical tests according to DIN EN 62561-1 section 6.4:	□ not intended for receiving static loads
Releasing torque of the screws:	☑ passed
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Test Engineer

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Component: MAXI MV Terminal Part No.: S05635 MatNo.: 3005635 Material: hot-galvanized steel	Tightening torque 1.) M12 - 35 Nm of the screws:
Test arrangement according to EN 62561-1 Annex B	B02 B03
	Connected conductor (1): round wire 10 steel Connected conductor (2): round wire 8 reinforcement
Precondition/Ageing according to Annexes C	Overground application Underground application D
Lightning current test according to DIN EN 62561-1 section 6.3	3 lightning current loads Class H ☑ 100 kA (10/350)
Assessment after lightning current test according to DIN EN 62561-1 section 6.3	$\begin{tabular}{lll} \hline \end{tabular} \begin{tabular}{lll} \hline \end{tabular} ta$
Static-mechanical tests according to DIN EN 62561-1 section 6.4:	☐ not intended for receiving static loads
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Visual check:	☑ passed
Static-mechanical tests according to DIN EN 62561-1 section 6.4:  Releasing torque of the screws:	□ not intended for receiving static loads
Assessment after lightning current test according to DIN EN 62561-1 section 6.3	
Lightning current test according to DIN EN 62561-1 section 6.3	3 lightning current loads Class H ☑ 100 kA (10/350)
Precondition/Ageing according to Annexes C	Overground application Underground application D
Test arrangement according to EN 62561-1 Annex B	Connected conductor (1): round wire 10 steel Connected conductor (2): round wire 20 reinforcement
Component: MAXI MV Terminal Part No.: S05635 MatNo.: 3005635 Material: hot-galvanized steel	Tightening torque 1.) M12 - 35 Nm of the screws:

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Test arrangement according to EN 62561-1 Annex B	B02 B03
	Connected conductor (1): round wire 10 steel Connected conductor (2): round wire 14 reinforcement
Precondition/Ageing according to Annexes C	Overground application Underground application D
Lightning current test according to DIN EN 62561-1 section 6.3	3 lightning current loads Class H ☑ 100 kA (10/350)
Assessment after lightning current test according to DIN EN 62561-1 section 6.3	$ ightharpoonup$ passed Transient specified value: $\leq 1 \text{ m}\Omega$ resistance:
Static-mechanical tests according to DIN EN 62561-1 section 6.4:	□ not intended for receiving static loads
Releasing torque of the screws:	☑ passed
Visual check:	☑ passed
Assesment	

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Marzinger J.
Test Engineer

Test Engineer

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Murzinger J.
Test Engineer

Test Engineer

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(a) Table 1	
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Company Spirite Company (Spirite Company)	

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