

# TEST REPORT

NAME OF SAMPLE: Cable trunking system

CLIENT: Lik Hung Metal Manufacturing Ltd.

CLASSIFICATION OF TEST: Commission test

Vkan Certification and Testing Co.,Ltd.



# TEST REPORT

No.: GJW2020-4739

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Name of product: Cable trunking system	Trade mark: —
Type/Model: 225×25×1.6mm 3/C	Sample status: —
Manufacturer: Lik Hung Metal Manufacturing Ltd.	Commissioned by: Lik Hung Metal Manufacturing Ltd.
Manufacturer address: G/F Unit B, Mai Luen Industrial Building, 23-31 Kung Yip St, Kwai Chung, Hong Kong	Commissioner address: G/F Unit B, Mai Luen Industrial Building, 23-31 Kung Yip St, Kwai Chung, Hong Kong
Quantity of sample: 27pcs	Sampled by: —
Sample identification: A1#~A27#	Sampling at (place): —
Means of receiving: Submitted by the client	Means of sampling: —
Classification of test: Commission test	Sampling date: —
Receiving date: 2020.07.22	Completing date: 2020.10.23
Tested according to: IEC 61084-1: 2017 IEC 61084-2-2: 2017	Test item: Full safety items
<p>Test conclusion:</p> <p>The samples submitted by the client is tested according to the following standard: IEC 61084-1:2017 Cable trunking systems and cable ducting systems for electrical installations - Part 1: General requirements. IEC 61084-2-2:2017 Cable trunking systems and cable ducting systems for electrical installations - Part 2-2: Particular requirements –Cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor.</p> <p>Test result: pass.</p> <div style="text-align: right;">  <p>Seal of CVC Date of issue: 2020.10.23</p> </div>	

Approved by: Lv Guowei

Reviewed by: Li Zhongyao

Tested by: Cai Chenglong

Function: Manager

*Lv Guowei*

*Li Zhongyao*

*Cai Chenglong*

**Test item particulars:**

1. Material .....: Metallic
2. Resistance to impact.....: 1J
3. Temperatures, as below
  - (1)Minimum storage and transport.....: -5°C
  - (2)Minimum installation and application .....: -5°C
  - (3)Maximum application .....: +60°C
4. Flame propagation .....: Non-flame propagation
5. Electrical characteristics .....: With Electrical continuity
6. Insulating characteristics .....: N/A
7. Degrees of protection provided, as below
  - Protection against ingress of solid foreign objects.....: N/A
  - Protection against ingress of water.....: N/A
  - Protection against access to hazardous parts .....: N/A
8. Protection against corrosive or polluting substances.....: N/A
9. Cover retention of the system.....: With tools
10. Floor treatment.....: Dry-treatment of floor
11. resistance to vertical load applied through small surface area .....: 500N
12. resistance to vertical load applied through large surface area .....: 2000N

## Copy of marking plate:



## Summary of test results:

This report is issued and base on full safety items tests carried out on Cable trunking system 225×25×1.6mm 3/C.

*ANNEX 1: PHOTOGRAPH*

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
7	<b>Marking and documentation</b>		P
7.1	Each system component shall be marked with:		P
	Manufacturer's or responsible vendor's name.....:		N/A
	Identification mark.....:		P
	System components are supplied in a package when there marks are not feasible to have both markings		N/A
	If one is feasible:		N/A
	(a) Sufficient to mark the identification on smallest supplied packages.....:		N/A
	(b) Manufacturer's or responsible vendor's name or trade mark or identification mark being on the product.....:		N/A
	If no legible is feasible:		N/A
	(a) Sufficient to place both markings on the smallest supplied packages.....:		N/A
	Earth terminals shall be marked according to 7.4:		N/A
	Earth marking shall not be placed on screws or any other easily removable part		N/A
	Flame propagating system component shall clearly identified as being flame propagating on the system component and on the smallest supplied package or label		N/A
	When not possible marked identifications on the components, sufficient to place identifications mean on the smallest supplied package		N/A
	Checked by inspection		P
7.2	The marking shall be durable and easily legible		P
	— For 15 s with a piece of cotton cloth soaked with water and again for 15 s with a piece of cloth soaked with n-hexane 95%		P
	Laser marking, moulding, pressing or engraving are not subjected to this test.....:	Moulding	P
	After the test, the marking shall be legible		P

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
7.3	The manufacturer shall provide documentation for the proper and safe installation and use. Shall include:		P
	- components of the system;		N/A
	- function of the system components and assemblies		N/A
	- classification of the system in accordance with Clause 6		P
	- for type 1 CTS/CDS the list of functions		N/A
	- linear impedance, in $\Omega/m$ , declared according to 6.5.1		N/A
	- rated voltage of CTS/CDS declared according to 6.6.2		N/A
	- usable cross sectional area, in $mm^2$ , for cables of the CTS/CDS		N/A
	- instructions to reach the declared classification and functions of the system, include the recommended installation positioning for the CTS/CDS to ensure that the declared IP classification is maintained after installation		N/A
	Checked by inspection		P
7.4	Symbols covered by IEC 60417 comply with IEC 60417, if has:		N/A
	- Amperes (A) .....		N/A
	- Volts (V) .....		N/A
	- Frequency (Hz) .....		N/A
	- Alternating current ( $\sim$ or AC) .....		N/A
	- Line (L or L1, L2, L3 etc.) .....		N/A
	- Neutral (N) .....		N/A
	- Protective earth (  ) .....		N/A
	- Fuse (  ) .....		N/A
	- Degree of protection (IPXX) .....		N/A
	- Flame propagating (  ) .....		N/A

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
7.101	Access units and service units of systems classified according to 6.101.1 shall be marked that they are suitable for dry treatment of floor only. The marking shall be visible by the user which may be achieved by opening the cover.....:		P
7.102	Service units shall be marked with a warning about the potential damage to electrical accessories by closing the cover. The marking shall be visible by the user which may be achieved by opening the cover		N/A
7.103	Compliance with 7.101 and 7.102 is checked by inspection		P

8	<b>Dimensions</b>		N/A
	Dimensions shall comply with the requirements of the relevant IEC 61084-2 part		N/A
	No dimension requirements		N/A

9	<b>Construction</b>		P
9.1	<b>Sharp edges</b>		P
	Any surface or edge shall not damage the insulated conductors or cable		P
	Screws, studs or other securing devices shall be fitted so as not to damage the conductors or cables		P
9.2	<b>Apparatus mounting</b>		P
	If the CTS/CDS is provide with means for the mounting of apparatus, these means shall adequately secure this apparatus		P
	Checked by the test of 10.5		P
9.3	<b>Means for protective separation and/or retention</b>		P
	If the CTS/CDS is provide with means for the protective separation and/or retention, these means shall adequate mechanical performance to fulfil their function		P
	Checked by the test of 10.2		P
9.4	<b>Mechanical connections</b>		P

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
9.4.1	Screwed and other connections shall withstand the mechanical stresses during installation and normal use		P
	Screws shall be one or more of the following:		—
	a) ISO-metric threads .....		P
	b) thread forming type .....		N/A
	c) thread cutting type if suitable design provisions are made .....		N/A
	d) thread other than a) to c) as specified by the manufacture .....		N/A
	Mechanical connections of CTS used to allow the laying in of insulated conductors or cables or relocation of an apparatus shall be intended for re-use		N/A
	Checked by the tests of 9.4.2, 9.4.3, and 9.4.4		P
9.4.2	Screws intended for re-use shall not be tightened by sudden or jerky motions		P
	After the test there shall be no damage that will impair the further use of the screwed connection		P
9.4.3	Mechanical connections intended for re-use other than screwed connections, shall be fitted and removed 10 times		P
	After the test, there shall be no damage to impair the further use of the mechanical connection		P
9.4.4	Mechanical connections not intended for re-use are checked by inspection		N/A
<b>9.5</b>	<b>Accessible conductive parts</b>		P
9.5.1	Shall comply with 9.5.2 unless they comply with 9.5.3		P
9.5.2	According to the manufacture's instruction installed, likely to become live in the event of an insulation fault, shall have the provision for reliable connection to earth		P

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	In other to prevent creepage distances and clearances form becoming less than 3mm, even if a conductor should become loose from its terminal, the accessible conductor part is not considered likely to become live		N/A
	Protection against electric shock in case of a fault may be omitted for accessible conductive parts, cannot be gripped or come into significant contact with a part of the human body and provided that connection with a protective conductor could only be made with difficulty or would be unreliable		N/A
	Checked by inspection, measurement		P
	Necessary, by the appropriate test of 11.1.3 or 11.2.		N/A
9.5.3	Accessible conductive parts need not have provision for connection to earth if they are insulated from live parts with supplementary or reinforced insulation used to form barriers or linings which shall be designed in such a way that:		N/A
	- they cannot be removed without being permanently damaged or,		N/A
	- they cannot be replaced in an incorrect position or,		N/A
	- if omitted, the system is rendered inoperable or manifestly incomplete		N/A
	Checked by inspection		N/A
<b>9.6</b>	<b>Equipotential bonding</b>		P
9.6.1	The manufacture shall declare if the CTD/CDS can be used for equipotential bonding		P
9.6.2	If there is a provision for bonding, compliance is checked by the tests of 11.1.3. Before the test the sample is subjected to conditioning of 11.1.2		N/A
<b>9.7</b>	<b>Access to live parts</b>		N/A
9.7.1	CTS/CDS shall be so designed that when they are installed and fitted with apparatus and/or other electrical equipment as in normal use, live parts are not accessible		N/A
	Checked by inspection		N/A
	If necessary, by the test of 9.7.2, 9.7.3 and 9.7.4		N/A

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	The test are carried out after all parts removable without tools are removable		N/A
9.7.2	Test probe B of IEC 61032:1997 applied in every possible position.		N/A
9.7.3	Non-metallic system are subjected to the following additional test,		N/A
	Additional test at (Table 3)±2 °C with probe 11 of IEC 61032:1997 applied for 1 min with a force of 50N (°C).....:		N/A
	All place of 7.9.2, where yielding of insulating material could impair the safety of the system but is not to be applied to knockouts, membranes and the like		N/A
	During the test, probe 11 can not touched the live parts		N/A
9.7.4	Knockouts are subjected for 1 min to a force of 10N applied through the tip of test probe 11 of IEC 61032:1997		N/A
	During the test, knockouts shall not be break		N/A
<b>9.8</b>	<b>Inlet openings</b>		N/A
	If any, shall allow the introduction of conduits and/or the like, or the protective covering of the cable at least 1mm into the system component		N/A
	Inlet opening for conduits shall be capable of accepting conduit sizes according to IEC 60423:2007		N/A
	Checked by inspection and measurement		N/A
<b>9.9</b>	<b>Membranes</b>		N/A
9.9.1	Membranes and the like which prevent access to live parts shall withstand the mechanical stresses occurring in normal use		N/A
	The manufacture shall declare the dimensions of the cables which may be installed in the entry membranes		N/A
	Checked by the test of 9.9.2		N/A

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
9.9.2	Table 3 $\pm 2^{\circ}\text{C}$ in the heating cabinet placed for 2h, then force of 30N applied for 5s by probe 11 of IEC 61032: 1997 ( $^{\circ}\text{C}$ ) .....		N/A
	During the test, the membranes shall not deform to such an extent that live parts become accessible and the membranes shall not become detached		N/A
9.9.3	Entry membranes shall allow the introduction of cables into the system at the minimum installation temperature declared according to Table 2		N/A
	Checked by the test of 9.9.4		N/A
9.9.4	The system component shall be fitted with entry membranes which have not been subjected to any ageing treatment, those without openings being suitably pierced		N/A
	Table 2 $\pm 2^{\circ}\text{C}$ for 2h ( $^{\circ}\text{C}$ ) .....		N/A
	After this period the sample is removed from the refrigerator, and immediately afterwards, while the sample is still cold, it shall be possible to introduce through the entry membranes without undue force, cables having the largest outside dimension as declared		N/A
9.9.5	After the tests of 9.9.2 and 9.9.4, the membranes shall show:		N/A
	- no cracks		N/A
	- no similar damages visible to normal		N/A
	- no corrected vision without magnification that are likely to impair safety		N/A
<b>9.10</b>	<b>Cable restrainer</b>		N/A
	if any, shall relieve conductors from strain in terminals or terminations by resisting the pull force on cable or insulated conductors		N/A
	It shall be clear or indicated in the manufacturer's instructions how the relief from strain is intended to be effected		N/A
	Cable restrainers shall:		N/A

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	- be suitable for the different types of cable and the different types and number of insulated conductors according to the manufacturer's instructions		N/A
	- be such that at least part of it is integral with or permanently fixed to a system component		N/A
	- not use makeshift method such as tying cable or insulated conductor in a knot or tying the ends with string		N/A
	- not impair electrical safety		N/A
	Torque by table 4 (Nm).....:		—
	After any of the tests:		N/A
	the longitudinal displacement of the cable or any insulated conductor in the restrainer shall not be more than 2 mm; and		N/A
	electrical safety shall not be impaired		N/A
<b>9.11</b>	<b>Cable anchorage</b>		N/A
	if any, shall relieve conductors from strain in terminals or terminations by resisting the pull and twist forces on cable		N/A
	It shall be clear or indicated in the manufacturer's instructions how the relief from strain is intended to be effected		N/A
	Cable anchorage shall:		N/A
	- be suitable for the different types of cable according to the manufacturer's instructions		N/A
	- be such that at least part of it is integral with or permanently fixed to a system component		N/A
	- not use makeshift method such as tying cable in a knot or tying the ends with string		N/A
	- not impair electrical safety		N/A
	Force by table 5 (N).....:		—
	Torque by table 5 (Nm).....:		—
	After any of the tests:		N/A
	- the longitudinal displacement of the cable in the cable anchorage shall not be more than 2 mm; and		N/A

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	- the cable shall not have turned in the cable anchorage more than 2 revolutions; and		N/A
	- electrical safety shall not be impaired		N/A
<b>9.101</b>	Access covers of underfloor, flushfloor and onfloor CTS/CDS, which in normal use are subjected to external mechanical loads, shall resist movement and unintentional opening		P
	Compliance is checked by inspection and by the tests of 10.5		P
<b>9.102</b>	Service units installed flushfloor shall protect the installed electrical apparatus and the plug from direct impact when in use. This protection shall be effective and shall not cause damage to the outgoing cable		N/A
	Compliance is checked by inspection and by the tests of 10.3		N/A
<b>9.103</b>	It shall be possible to securely fix:		N/A
	- service units to the system		N/A
	- electrical apparatus to the service units		N/A
	Compliance is checked by the tests of 10.3 and 10.5.1		N/A
<b>9.104</b>	When the service unit is not in use, it shall be possible to close openings intended for the passage of cables		N/A
	Openings, when in use, in underfloor and flushfloor CTS/CDS, for the passage of cables, need not be closed if one of its dimensions is less than 20 mm in one direction		N/A
<b>9.105</b>	Underfloor and flushfloor CTS/CDS which in normal use are embedded in screed material shall be protected against ingress of the screed material		N/A
	Openings leading to the interior of underfloor and flushfloor CTS/CDS which in normal use, are located below the upper level of the floor without covering, shall not be wider than 7 mm in one direction		N/A

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
<b>9.106</b>	CTS/CDS declared according to 6.1 01 .2 and 6.1 01 .3 shall avoid water coming into contact with insulated conductors and live parts during wet-treatment of floor by one or a combination of the following methods which may vary within the system		N/A
	- method 1 : ensuring by design that water does not come into contact with insulated conductors and live parts when the water level is 1 0 mm above the upper level of the floor covering		N/A
	- method 2: providing an IP rating not less than IPX4;		N/A
	- method 3: providing manufacturer's instructions which require that insulated conductors and live parts are positioned not less than 1 0 mm above the upper level of the floor covering		N/A
<b>9.107</b>	Access cover of service unit, if any, shall withstand repeated opening and closing as in normal use		N/A
	Compliance is checked by 100 cycles of opening and closing of the access cover		N/A
<b>9.108</b>	Additional requirements for service units intended to be installed onfloor are given in IEC 61 084-2-4:201 7		N/A

<b>10</b>	<b>Mechanical properties</b>		P
<b>10.1</b>	<b>Mechanical strength</b>		P
	Underfloor, flushfloor and onfloor CTS/CDS shall have adequate mechanical strength		P
	Compliance is checked by the tests specified in 10.3 and 10.5 according to Annex AA		P
<b>10.2</b>	<b>Cable support test</b>		N/A
	Not applicable		
<b>10.3</b>	<b>Impact test</b>		P
<b>10.3.1</b>	<b>Impact test for storage and transport</b>		P
10.3.1.1	The test is carried out on samples each 250 mm $\pm$ 5 mm long		P

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	Before the test non-metallic components are conditioned at a temperature of Table 3± 2°C for 168 h continuously (°C).....:		N/A
10.3.1.2	The samples are placed in a refrigerator at the temperature declared according to Table 1 with a tolerance of ± 2 °C.....:	-5°C	P
10.3.1.3	After 2 h, each sample is, in turn, removed from the refrigerator and immediately placed in position in the test apparatus		P
10.3.1.4	After the test the samples shall show no signs of disintegration nor there be any cracks or similar damages visible to normal or corrected vision without magnification that are likely to impair safety		P
<b>10.3.2</b>	<b>Impact test for installation and application</b>		P
	The test is carried out according to the resistance to impact declared according to Table 6, at the temperature declared according to Table 2 with a tolerance of ± 2 °C.....:	-5°C	P
	The test is described in the relevant IEC 61084-2		P
	In addition, the manufacturer may declare the CTS/CDS IK code according to IEC 62262 and Annex B of this document		N/A
10.3.2.101	Systems components only intended to be mounted underfloor are not tested		N/A
10.3.2.102	The impact test apparatus according to Clause 4 of IEC 60068-2-75:201 4, is mounted on a solid wall or structure providing sufficient support		N/A
10.3.2.103	No impact is applied to knockouts, membranes and the like		N/A
	No impact is applied within 50 mm of any open extremity of the sample		N/A
10.3.2.104	After the test,		N/A
	the assemblies shall show no cracks or similar damage visible to normal or corrected vision without magnification, and		N/A
	the assemblies shall remain intact, and		N/A
	he service unit cover shall be in a position		N/A

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	such that safety is not impaired		N/A
<b>10.4</b>	<b>Linear deflection test</b>		N/A
	Not applicable		N/A
<b>10.5</b>	<b>External load test</b>		P
<b>10.5.1</b>	<b>Fixing test for apparatus mounting of socket outlets</b>		N/A
	The sample is 250 mm ± 5 mm long or 100 mm ± 5 mm longer than the apparatus mounting device, whichever is the greater		N/A
	If the results of the tests are dependent on the temperature the tests are carried out at the temperature of 60 °C ± 2 °C		N/A
	After the test, electrical safety shall not be impaired		N/A
	In case of doubt, the test of 14.1.4 shall be carried out on the assembly to check		N/A
	During the test, the apparatus mounting device shall not turn more than an angle of 15° from its initial position and after the test electrical safety shall not be impaired		N/A
<b>10.5.2</b>	<b>Fixing test for apparatus mounting other than socket outlets</b>		P
	For other apparatus, only a pull and press force test is carried out according to the test of 10.5.1 with a force of 50 N ± 2 N		P
10.5.101	Underfloor CTS/CDS, flushfloor CTS/CDS and onfloor CTS/CDS shall have sufficient mechanical strength against external mechanical loads likely to occur during transport, storage, installation and normal use		P
10.5.102	Load test for installation		P
	Before the test non-metallic system components and composite components are aged at the temperature declared according to Table 3 with a tolerance of ± 2 °C for (1 68 ± 4) h continuously		N/A
	During the test the vertical displacement of the cube shall be less than 25 mm		P

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	Cracks are allowed but the maximum vertical displacement of the cube shall not be exceeded		P
10.5.103	Load test for application – Force applied through small surface area		P
	Before the test non-metallic system components and composite system components are aged at the temperature declared according to Table 3 with a tolerance of $\pm 2^{\circ}\text{C}$ for $(1\ 68 \pm 4)$ h continuously		P
	The surface of the sample which can be exposed to traffic is loaded with the force declared according to 6.1 02	500N	P
	During the test the samples shall show no deflection greater than 6 mm. After the tests the samples shall show no signs of disintegration, nor shall there be any crack visible to normal or corrected vision without additional magnification. One min after the load has been removed, there shall be no permanent deformation exceeding 3 mm		P
	The electrical safety shall not be impaired		P
10.5.104	Load test for application – Force applied through large surface area		P
	Before the test non-metallic system components and composite system components are aged at the temperature declared according to Table 3 with a tolerance of $\pm 2^{\circ}\text{C}$ for $(1\ 68 \pm 4)$ h continuously		P
	The surface of the sample which can be exposed to traffic is loaded with the force declared according to 6.1 03	2000N	P
	During the test the samples shall show no deflection greater than 6 mm. After the tests the samples shall show no signs of disintegration, nor shall there be any crack visible to normal or corrected vision without additional magnification. One min after the load has been removed, there shall be no permanent deformation exceeding 3 mm		P
	The electrical safety shall not be impaired		P

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
<b>10.6</b>	<b>System access cover retention</b>		P
	System component, the cover classified according to 6.9.2 shall not be capable of being opened without a tool		P
	Before the test, non metallic system components and composite components are aged at the temperature declared according to Table 3 with a tolerance of $\pm 2$ °C for $(168 \pm 4)$ h continuously...		N/A
	Without the use of a tool, reasonable manual effort is made to open the access cover. Reasonable effort is intended to simulate action and instinctive handling likely to occur		N/A
	After the test, the access cover shall remain secured		P

<b>11</b>	<b>Electrical properties</b>		P
<b>11.1</b>	<b>Electrical continuity</b>		P
<b>11.1.1</b>	<b>General</b>		P
	CTS/CDS declared according to 6.5.1 shall have adequate conductivity		P
	Torque specified by the Table 4 (Nm) .....		N/A
<b>11.1.2</b>	<b>Preparation and conditioning</b>		P
	All grease is removed from the parts to be tested		P
<b>11.1.3</b>	<b>Electrical impedance tests</b>		P
<b>11.1.3.1</b>	<b>General</b>		P
	through the four sample arrangements of 11.1.3.2 to 11.1.3.5, measure the voltage drop		P
<b>11.1.3.2</b>	<b>Impedance of ducting length or trunking length</b>		P
	The test is carried out on one or more of the following samples according to the manufacturer's declaration:		P
	- ducting length		N/A
	- base of trunking length		N/A
	- access cover of trunking length		N/A

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	- trunking length		P
	measured between two convenient points as shown in Figure 6a (mΩ) .....:	18	P
	shall not be greater than the declared value		P
<b>11.1.3.3</b>	<b>Impedance of a joint</b>		P
	The test is carried out on the following samples:		P
	- two assembled trunking lengths or assembled ducting lengths		P
	- trunking length or ducting length assembled with a different system component		N/A
	measured as shown in Figure 6b between two convenient points (mΩ) .....:	36	P
	shall not be greater than 50 mΩ		P
<b>11.1.3.4</b>	<b>Impedance of connection between trunking base and access cover</b>		P
	If the manufacturer declares that the system provides appropriate electrical continuity between the base and access cover for good earthing then the following test is carried out on one of the following samples:		P
	- one access cover having a length equal to the smallest length of access cover allowed by the manufacturer's instruction mounted on a base as long as the access cover but at least 100 mm long		P
	- system component		N/A
	measured as shown in Figure 6c between both sides of the connection (mΩ) .....:	22	P
	shall not be greater than 50 mΩ		P
<b>11.1.3.5</b>	<b>Impedance of the connection of the earthing terminal or termination</b>		N/A
	The test is carried out on system components fitted or intended to be fitted with earthing terminal or termination		N/A
	measured as shown in Figure 6d between the earthing terminal or termination and a point(mΩ)....:		N/A

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	shall not be greater than 50 mΩ		N/A
<b>11.2</b>	<b>Electrical insulation</b>		N/A
<b>11.2.1</b>	<b>Solid insulation</b>		N/A
	System components, which form part of the enclosure, of CTS/CDS declared according to 6.6.2 shall be capable of withstanding electrical stress, which is likely to occur		N/A
	Internal protective partitions, declared by the manufacturer as providing supplementary insulation, shall be capable of withstanding electrical stress, which is likely to occur		N/A
	Compliance is checked by the tests according to 11.2.3 and 11.2.4 using the same sample, after conditioning and preparation according to 11.2.2		N/A
<b>11.2.2</b>	<b>Conditioning and preparation</b>		N/A
	The samples are kept in the cabinet for 120 h		N/A
<b>11.2.3</b>	<b>Insulation resistance test</b>		N/A
	Measured the resistance (MΩ).....:		N/A
<b>11.2.4</b>	<b>Dielectric strength test</b>		N/A
	voltage of (2 U n + 1 000) V		N/A
	The overcurrent relay shall not trip when the output current is less than 100 mA		N/A
	No flashover or breakdown shall occur during the test		N/A
<b>12</b>	<b>Thermal properties</b>		N/A
<b>12.1</b>	<b>Resistance to heat</b>		N/A
<b>12.1.1</b>	<b>General</b>		N/A
	Non-metallic or composite system components shall have adequate resistance to heat		N/A
	Compliance is checked by test of 9.7, 9.9, 10.5, 12.1.2 and 12.1.3		N/A
<b>12.1.2</b>	<b>Test for non-metallic or composite system components necessary to retain current-carrying parts in position</b>		N/A

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	Requirement – Test	Result	Verdict
	Non-metallic or composite system components necessary to retain current-carrying parts in position are subjected to a ball-pressure test by means of the apparatus shown in Figure 5		N/A
	Temperature of 125°C ± 2°C, 1h (°C) .....		N/A
	Measured the impression not exceed 2 mm (mm) :		N/A
<b>12.1.3</b>	<b>Test for non-metallic or composite system components not necessary to retain current-carrying parts in position</b>		N/A
	Temperature of 70°C ± 2°C, 1h (°C) .....		N/A
	Measured the impression not exceed 2 mm (mm) :		N/A

<b>13</b>	<b>Fire hazard</b>		N/A
<b>13.1</b>	<b>Reaction to fire</b>		N/A
<b>13.1.1</b>	<b>Initiation of fire</b>		N/A
	Non-metallic system components and composite system components which might be exposed to abnormal heat due to electrical effects and deterioration of which might impair the safety of the system, shall not initiate fire		N/A
	Glow-wire test		N/A
	for non-metallic or composite parts of system components necessary to retain current-carrying parts in position, by the test carried out at the temperature of 850 °C		N/A
	The sample is regarded as having passed the glow-wire test if		N/A
	a) there is no ignition, or		N/A
	b) all of the following situations apply when ignition has occurred:		N/A
	i) combustion of the test specimen extinguish within 30 s after removal of the glow wire		N/A
	ii) the specified layer placed underneath the test specimen does not ignite		N/A
	Small parts, such as washers, are not subjected to the test of this subclause		N/A

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	Requirement – Test	Result	Verdict
	The tests are not carried out on parts of ceramic material		N/A
<b>13.1.2</b>	<b>Contribution to fire</b>		N/A
	Non-metallic system components and composite system components shall not actively contribute to fire		N/A
	Glow-wire test		N/A
	All parts under the conditions specified in 13.1.1 at the temperature of 650 °C		N/A
	a) there is no ignition, or		N/A
	b) all of the following situations apply when ignition has occurred:		N/A
	i) combustion of the test specimen extinguish within 30 s after removal of the glow wire		N/A
	ii) the specified layer placed underneath the test specimen does not ignite		N/A
	Parts, which have already been tested at 650 °C or 850 °C according to 13.1.1, are not tested again at this temperature		N/A
	Small parts and parts in ceramic material are not tested		N/A
<b>13.1.3</b>	<b>Spread of fire</b>		N/A
	Non-flame propagating CTS/CDS declared according to 6.4.2 shall either not ignite or if ignited, shall not continue to burn when the source of ignition is removed		N/A
	for trunking lengths or ducting lengths of non-metallic or composite material by the following test		N/A
	Length (mm).....:		N/A
	Time (s) .....		N/A
	Sample passed the test if:		N/A
	it does not ignite, or if		N/A
	in the case of ignition, the following three conditions are fulfilled:		N/A
	1) the flame extinguishes within 30 s after removal of the test flame(s) .....		N/A

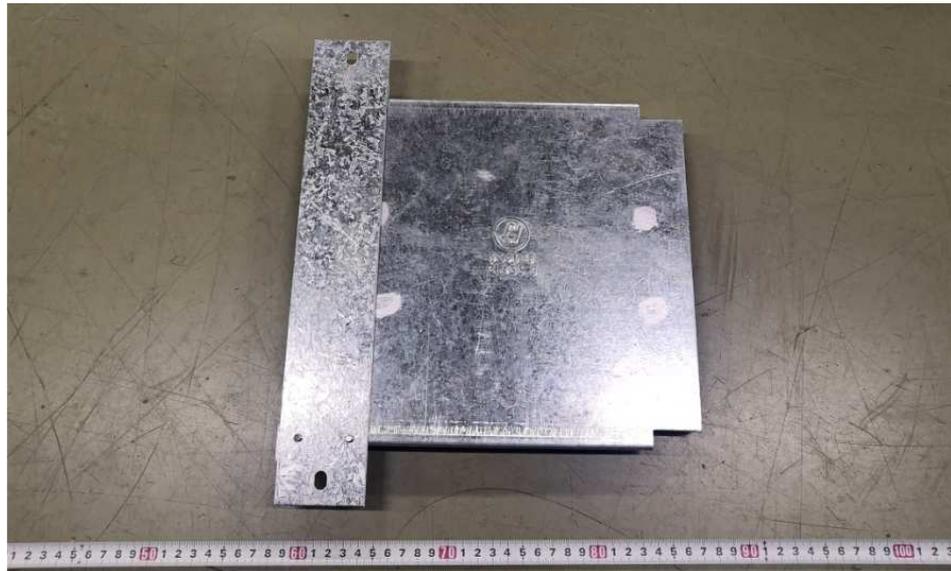
IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	2) there is no ignition of the wrapping paper or scorching of the board		N/A
	3) after wiping of the sample, there is no evidence of burning or charring above 50 mm below the lower extremity of the upper clamp		N/A
	for other system components of non-metallic or composite material by the test of 13.1.1 at the temperature of 650 °C		N/A
	a) there is no ignition, or		N/A
	b) all of the following situations apply when ignition has occurred:		N/A
	i) combustion of the test specimen extinguish within 30 s after removal of the glow wire		N/A
	ii) the specified layer placed underneath the test specimen does not ignite		N/A
<b>13.1.4</b>	<b>Additional reaction to fire characteristics</b>		N/A
	Under consideration		N/A
<b>13.2</b>	<b>Resistance to fire</b>		N/A
	Under consideration		N/A

<b>14</b>	<b>External influences</b>		N/A
<b>14.1</b>	<b>Degree of protection provided by enclosure</b>		N/A
<b>14.1.1</b>	<b>General</b>		N/A
	CTS/CDS, when assembled and installed according to the manufacturer's instructions, shall provide adequate protection according to the classification declared by the manufacturer with a minimum of IP20.....:		N/A
	Assemblies designed for opening are opened and closed five times		N/A
<b>14.1.2</b>	<b>Protection against ingress of solid foreign objects</b>		N/A
	The assembly is tested in accordance with the appropriate test of IEC 60529:1989. For numeral 5, category 2 applies		N/A

IEC 61084-2-2			
	Requirement – Test	Result	Verdict
	The assembly tested for numeral 5 or 6 passes the test if there is no ingress of dust visible to normal or corrected vision without magnification		N/A
<b>14.1.3</b>	<b>Protection against ingress of water</b>		N/A
	The assembly is tested in accordance with the appropriate test of IEC 60529:1989		N/A
<b>14.1.4</b>	<b>Protection against access to hazardous parts</b>		N/A
	The probe shall not enter the space for the accommodation of circuits		N/A
	Service units are tested with the cover opened		N/A
<b>14.2</b>	<b>Protection against corrosive or polluting substances</b>		N/A
	Under consideration		N/A
<b>14.101</b>	<b>Protection against corrosion by wet screed material</b>		N/A
	Parts of CTS/CDS intended to be in contact with wet screed material which are made entirely or partially of metal shall have adequate protection against corrosion		N/A
	After exposure, the surface shall show no areas of red rust. White rust (zinc oxide) and traces of red rust which are removable by rubbing as well as traces of rust at the surface of cuts, bent edges and welded joints are ignored		N/A
<b>15</b>	<b>Electromagnetic compatibility</b>		N/A
	Products covered by this document are, in normal use, passive in respect of electromagnetic influences		N/A

# ANNEX 1 PHOTOGRAPH

Cable trunking system  
225×25×1.6mm 3/C



# Important

1. The test report is invalid without the official stamp of CVC;
2. Any photocopies or part photocopies of the test report are forbidden without the written permission from CVC;
3. The test report is invalid without the signatures of Approval and Reviewer;
4. The test report is invalid if altered;
5. Objections to the test report must be submitted to CVC within 15 days;
6. Generally, commission test is responsible for the tested samples only;
7. "P" means "pass" , "F" means "fail", "N/A" means "not applicable" and " / "means "not test".

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