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No.: GJW2017-1080

TEST REPORT

NAME OF	SAMPLE:	PVC Rigid conduits for cable management
CLIENT: _	Univolt Ext	rusions (Dongguan) Ltd.
CL ASSIFI	CATION OF	TEST: Commission test



TEST REPORT

No.: GJW2017-1080 Page 2 of 19 pages Name of product: Trade mark: PVC Rigid conduits for cable management UNIVOLT Sample status: Type/Model: BSSH 20, BSSH 25, BSSH 32, BSSH 40 Manufacturer: Commissioned by: Univolt Extrusions (Dongguan) Ltd. Univolt Extrusions (Dongguan) Ltd. Manufacturer address: Commissioner address: Dongshan Yongfa Industrial Area, Qi Shi Town Dongshan Yongfa Industrial Area, Qi Shi Town Dongguan City, Prov. Guangdong, China Dongguan City, Prov. Guangdong, China Quantity of sample: Sampled by: 21 pcs Sample identification: Sampling at (place): 1#~21# Means of receiving: Means of sampling: Submitted by the client Classification of test: Sampling date: Commission test Receiving date: Completing date: 2017.03.02 2017.04.19 Tested according to: Test item: IEC 61386-1: 2008 Full safety items IEC 61386-21: 2002

Test conclusion:

The conduits submitted by the client is tested according to the following standard:

IEC 61386-1: 2008 Conduit systems for cable management - Part 1: General requirements

IEC 61386-21: 2002 Conduit systems for cable management -- Part 27

Particular requirements - Rigid conduit systems

Test result: Pass.

Approved by: Liu Bo Reviewed by: Lü Guowei Tested by: Hong Zhijing

Test item particulars:	
Conduit system classification coding	44211230X010
(according to Annex A)	☐Metallic ☑ Non-metallic ☐ Composite
Type of conduit	
Type of conduit	☐ Plain ☐ Corrugated
Type of conduit fitting	☐Metallic ☐ Non-metallic ☐ Composite
Conduit fitting –quantity	N/A
Conduit fitting -type(s)	N/A
Conduit fitting -colour(s)	White
Method for connection	☐ Threadable ⊠Non-threadable
Resistance to compression:	☐ Light ☐ Medium ☑Heavy ☐ Very heavy
Resistance to impact	☐ Light ☐ Medium ☑Heavy ☐ Very heavy
Lower / Upper temperature range:	-5°C / 60°C
Resistance to bending	Rigid
Electrical characteristics	☐With electrical continuity ☐With electrical insulating
Resistance to external influences	IP30
Resistance against corrosion:	☑ Without protection☑ With protection: High protection inside and outside
Tensile strength:	☐ Light ☐ Medium ☐ Heavy ☐ Very heavy ☐ None declared
Resistance to flame propagation	☑ Non-flame propagating ☐ Flame propagating
Suspended load capacity	☐ Light ☐ Medium ☐ Heavy ☐ Very heavy ☐ None declared
Copy of marking plate: BSSH 20 20mm 4421 for example:	
UNIVOLT IEC 61386 20/	02/17 10:41:29 *BSSH 20 *
management BSSH 20 20mm 4421.	-item tests carried out on the PVC Rigid conduits for cable n, clause 8 Dimensions and clause 9 Construction are carried

	IEC 61386-21		
CI.	Requirement – Test	Result	Verdict
7	MARKING AND DOCUMENTATION		Р
7.1	Conduit (conduit fitting) is marked on the product with a trade mark or a name identifying the manufacturer or responsible vendor	UNIVOLT	P
	Conduit (conduit fitting) is marked in addition in such a way that it can be identified in the manufacturer's, or responsible vendor's, literature	BSSH 20, BSSH 25, BSSH 32, BSSH 40	Р
7.1.1	Conduit is also marked with the classification code, in accordance with annex A, and includes at least the first four digits (optional):		Р
7.1.2	Manufacturer indicates the compatibility of parts within a conduit system		N/A
7.1.101	Conduit is marked in accordance with 7.1 along its entire length at regular intervals of preferably 1 m but not longer than 3 m (m)	2.5	Р
	Each length is marked at least once		Р
7.1.102	Minimum inside diameter and the classification for the system in accordance with clause 6 are documented by the manufacturer	See appended table 7.1.102	Р
7.2	Conduit fitting is marked in accordance with 7.1, on		Р
	- the product:		Р
	- a label attached to the product, or on the box or carton containing the fittings (if the marking on the product is impractical)		Р
7.3	Flame propagating material is orange in colour		N/A
	Flame propagating material is not coloured orange by painting or other superficial means		N/A
	Non-flame propagating material is of any colour except yellow, orange or red, unless is clearly marked on the product to be of non-flame propagating material		P
7.4	Earthing facilities are indicated by the symbol for protective earth in accordance with IEC 60417, symbol 60417-IEC-5019-a		N/A
	This marking is not placed on easily removable parts, for example screws		N/A
7.5	Compliance with 7.1 to 7.4 checked by inspection		Р
7.6	Marking is durable and clearly legible		Р
	Compliance checked by inspection and by rubbing the marking by hand for 15 s with a piece of cloth soaked with water, and again for 15 s with a piece of cloth soaked with petroleum spirit		Р
8	DIMENSIONS		Гр

8	DIMENSIONS		Р
8.1	Outside diameters comply with IEC 60423:	See appended table 8.1A	Р

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CI.	Requirement – Test	Result	Verdict
<u> </u>	requirement root	rtocali	Voraiot
	Threads comply with IEC 60423	See appended table 8.1B	N/A
8.2	Threadable conduits and threadable conduit fittings comply with table 101 (except terminating conduit fittings)	See appended table 8.2A	N/A
	Non-threadable conduit fittings comply with table 102 (except fittings which are part of a conduit system declaring tensile strength)	See appended table 8.2B	N/A
	Minimum inside diameter of the conduit system is as declared by the manufacturer	See appended table 8.2C	Р
9	CONSTRUCTION		Р
9.1	There are no sharp edges, burrs or surface projections within the conduit system		Р
	The manufacturer provides guidelines to assist the safe installation of the conduit system		Р
9.2	Screws, if any, used for attaching components or covers to conduit fittings, or in joints to conduits, do not cause damage to cable insulation when correctly inserted		N/A
	Screws have ISO metric threads		N/A
	Thread-cutting screws are not used		N/A
	Fixing screws and small clips for use with non-metallic or composite conduit fittings, of non-metallic material, are isolated from insulated conductors or cables		N/A
9.3	Test for screw fixing using preformed threads	See appended table 9.3	N/A
	After the test: no damage sustained by the screw or nut, such as breakage of the screw or damage to the head or thread		N/A
9.4	Test for screw fixing using thread-forming screws	See appended table 9.4	N/A
	After the test: no damage, such as breakage of the screw or damage to the head or thread		N/A
9.5	Any material within the joint have at least the same level of resistance to the external influence as either the conduit or the conduit fitting		N/A
9.6	Indications whether the conduit system that are assembled by means other than threads can be disassembled and if so, how this can be achieved, are provided by the manufacturer		N/A
10	MECHANICAL PROPERTIES		Р
10.1	Mechanical strength		Р
10.1.1	Conduit systems have adequate mechanical strength		Р
10.1.2	Conduits do not crack and are not deformed when bent or compressed, or exposed to impact or extreme temperature, according to their classification		Р

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CI.	Requirement – Test Result	Verdict
10.1.3	Conduit systems intended as a mounting for other equipment have adequate mechanical strength	N/A
10.1.4	Compliance of 10.1.1 to 10.1.3 checked by the tests specified in 10.2 to 10.8	Р
10.2	Compression test	Р
	3 samples of conduit, each (200 ± 5) mm long, subjected to a compression test at (23 ± 2) °C, using the apparatus shown in figure 1	P nded table 10.2
10.3	Impact test	Р
	12 samples of conduit, each (200 ± 5) mm in length, or 12 samples of conduit fittings subjected to an impact test using the apparatus shown in figure 2	P nded table 10.3
10.3.3	At least 9 of the 12 samples passed the test	Р
10.4	Bending test	P
	Conduits declared by the manufacturer as being bendable tested in accordance with 10.4.101, 10.4.102 or 10.4.103	Р
10.4.101	Metallic conduits	N/A
	Conduit sizes 16, 20 and 25, having a length equal to 30 times the nominal diameter, subjected to a bending test using the apparatus shown in figure 101 See apper	N/A nded table 10.4.101
	Other sizes tested in accordance with the manufacturer's instructions	N/A
10.4.102	Non-metallic conduits	Р
	Conduit sizes 16, 20 and 25, having a length of approximately 500 mm, subjected to a bending test using the apparatus shown in figure 103 See apper	P nded table 10.4.102
	Other sizes tested in accordance with the manufacturer's instructions	N/A
10.4.103	Composite conduits	N/A
	Composite conduits declared by the manufacturer as being bendable tested both in accordance with 10.4.101 and 10.4.102, using new samples for each test See apper and 10.4.1	
	Other sizes tested in accordance with the manufacturer's instructions	N/A
10.5	Flexing test	N/A
	Sub-clause of part 1 not applicable	_
10.6	Collapse test	
10.6.101	Metallic conduits	N/A
	Metallic conduits not subjected to a collapse test	N/A
10.6.102	Non-metallic and composite conduits	Р

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CI.	Requirement – Test Result	Verdict
10.6.102.1	Conduits declared by the manufacturer as being bendable tested in accordance with 10.4.102 with the exception of 10.4.102.3	Р
	Conduit sizes 16, 20 and 25, having a length of approximately 500 mm, subjected to a bending test using the apparatus shown in figure 103 See appended table 10.6.102	Р
	Other sizes tested in accordance with the manufacturer's instructions	Р
10.6.102.2	Samples tested after fixing to a rigid support by means of four straps as shown in figure 104 See appended table 10.6.102	Р
10.7	Tensile test	N/A
	Conduit systems declaring tensile strength: test carried out on an assembly prepared in accordance with the manufacturer's instructions so that the overall length is approximately 200 mm See appended table 10.7	N/A
10.8	Suspended load test	N/A
	Conduit fitting declared by the manufacturer to be suitable for suspended loads: test carried out with a load suspended by the means provided and installed in accordance with the manufacturer's instructions for a time duration given in table 7 See appended table 10.8	N/A
11	ELECTRICAL PROPERTIES	Р
11.1	Electrical requirements	P
11.1.1	Conduit systems declaring electrical continuity characteristics are checked by the tests in 11.2 immediately after the tests in 14.2	N/A
11.1.2	Conduit systems of metal or composite materials are so constructed that accessible metal parts can be bonded to earth	N/A
11.1.3	Accessible conductive parts of the metal or composite conduit system, which may become live in the event of a fault, are be effectively earthed	N/A
11.1.4	Conduit systems of non-metallic or composite materials, where declared, have an adequate electrical insulating strength and insulating resistance	Р
11.2	Bonding test	N/A
	Test carried out on an arrangement of conduits and conduit fittings prepared in accordance with the manufacturer's instructions and figure 3: resistance not exceed 0,1 Ω See appended table 11.2	N/A
11.3	Electrical insulating strength and resistance	Р
11.3.1	Conduits	Р
L		

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CI.	Requirement – Test	Result	Verdict
O 1.	requirement rest	reduit	Veralet
	3 samples of conduit tested in a salt water solution at (23 ± 2) °C, in accordance with figure 4, and submitted after 24 h \pm 15 min to a voltage of 2000 V maintained for a period of 15 min \pm 5/0 s: trip device incorporated into the circuit not trip during the test		Р
	Same samples then subjected to an electrical insulation resistance test with a direct voltage of 500 V applied for (60 \pm 2)s: measured insulation resistance greater than 100 $\text{M}\Omega$	See appended table 11.3.1	Р
11.3.2	Conduit fittings		Р
	3 samples of conduit fittings immersed for 24 h \pm 15 min in water at (23 ± 2) °C and then submitted by means of lead spheres to a voltage of 2000 V maintained for a period of 15 min +5/0 s: trip device incorporated into the circuit not trip during the test		P
	Same samples then subjected to an electrical insulation resistance test with a direct voltage of 500 V applied for (60 \pm 2)s: measured insulation resistance greater than 100 $\text{M}\Omega$	See appended table 11.3.2	P
12	THERMAL PROPERTIES		Р
12.1	Non-metallic and composite conduits have adequate resistance to heat		P
12.2	Samples of conduit, each (100 ± 5) mm long, together with the test apparatus as shown in figure 8, kept for 4 h ± 5 min in a heating cabinet at the declared temperature given in table 2, with a tolerance of ±2 °C		Р
	Each sample then loaded for 24 h ± 15 min in the apparatus of figure 8 with a total mass as shown in table 9	See appended table 12	Р
12.3	It is possible to pass the appropriate gauge of figure 102 immediately after the removal of the load	See appended table 12	Р
13	FIRE HAZARD		P
13.1	Reaction to fire		P
13.1.1	Initiation of fire (not applicable)		<u>'</u>
13.1.2	Contribution to fire (under consideration)		
13.1.3	Spread of fire		P
-3.1.3	Non-flame propagating conduit systems have adequate resistance to flame propagation		P
13.1.3.1	Non-metallic and composite conduit fittings subjected 60695-2-1/1 (IEC 60695-2-11) at 750 °C	d to glow-wire test of IEC	N/A
	No visible flame or sustained glowing,	See appended table 13.1.3.1	N/A
	Flames and glowing extinguished within 30 s of the removal of the glow-wire (s)	See appended table 13.1.3.1	N/A

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CI.	Requirement – Test Result	Verdict
13.1.3.2	Non-metallic and composite conduits subjected to 1 kW flame of IEC 60695-2-4/1 (IEC 60695-11-2), according to the arrangement of figure 7, applied for the period given in table 11	
	■ Sample does not ignite, or See appended table 13.1.3.2	N/A
	■ In case of ignition:	Р
	a) Flame extinguishes within 30 s See appended table 13.1.3.2	Р
	b) No ignition of the tissue paper See appended table 13.1.3.2	Р
	c) No evidence of burning or charring within 50 mm of the lower extremity of the upper clamp See appended table 13.1.3.2	Р
13.1.4	Additional reaction to fire characteristics (under consideration)	
13.2	Resistance to fire (not applicable)	_
14	EXTERNAL INFLUENCES	Р
14.1	Degree of protection provided by enclosure	Р
	Conduit systems, when assembled in accordance with the manufacturer's instructions, have adequate resistance to external influences according to the classification declared by the manufacturer, with a minimum requirement of IP30	P
14.1.1	Degree of protection – Ingress of foreign solid objects See appended table 14.1.1	Р
14.1.2	Degree of protection – Ingress of water See appended table 14.1.2	N/A
14.2	Resistance against corrosion	N/A
14.2.1	Resistance to corrosion classification for painted and zinc coated steel and steel composite conduits and conduit fittings (table 10)	_
	For non-ferrous metallic and composite conduit systems, the manufacturer provided information about its protection against corrosion	N/A
14.2.2	Tests for resistance to corrosion for painted and zinc coated steel and steel composite conduits systems	N/A
14.2.2.1	Low protection conduit and conduit fittings inspected for completeness of covering by the protective coating, both inside and outside	N/A
14.2.2.2	Test for medium protection conduit and conduit fittings: after completion of the test, the samples showed no more than two blue coloured spots on each square centimetre of the surface, and no blue spot had a dimension larger than 1,5 mm	N/A
14.2.2.3	Test for high protection conduit and conduit fittings: after the test, the sample showed no precipitation of copper which cannot be scrubbed off in running water, if necessary after immersion for 15 s in a 10% solution of hydrochloric acid in water	N/A

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CI.	Requirement – Test	Result	Verdict
15	ELECTROMAGNETIC COMPATIBIL	ITY	N/A
	Products covered by this standards a use, passive in respect of electromagn (emission and immunity)		N/A

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CI.	Requirement – Test	Result	Verdict

7.1.102	TABLE: Minimum inside diameter declared by manufacturer for the system		Р		
	Size	Minimum inside diameter declared by manufacturer for the system (mm)	Verdict		
	20	16.1	Р		
25 20.8		Р			
	32	27.5	Р		
	40	34.8	Р		
Suppleme	Supplementary information:				

8.1A	TABLE: Che	cking of dimens	ions of con	duits			Р	
Size		Maximum outside diameter (all type of conduits)		Minimum outside diameter (metallic conduits)		Minimum diame (non-metallic	eter	
Outside diameters (mm)	Metric threads	Gauge fig.2 d _g (mm)	Comply (P-F-N/A)	Gauge fig.3A c (mm)	Comply (P-F-N/A)	Gauge fig.3b d _g (mm)	Comply (P-F-N/A)	
20 +0/-0,3	M20	20,04	Р	19,700	N/A	19,70	Р	
25 +0/-0,4	M25	25,04	Р	24,600	N/A	24,60	Р	
32 +0/-0,4	M32	32,04	Р	31,600	N/A	31,60	Р	
40 +0/-0,4	M40	40,04	Р	39,600	N/A	39,60	Р	
Supplement	Supplementary information:							

8.1B	TABLE: Che	cking of dimensions	of threads			N/A		
Size		External threads of o	conduits and fittings	Internal threads of fittings				
Outside diameters (mm)	Metric threads	Go gauge fig. 4 (threaded) Comply (P-F-N/A)	No go gauge fig. 4 (plain) Comply (P-F-N/A)	Go gauge fig. 5 (threaded) Comply (P-F-N/A)		uge fig. 5 ain) P-F-N/A)		
20 +0/-0,3	M20							
25 +0/-0,4	M25							
32 +0/-0,4	M32							
40 +0/-0,4	M40							
Supplementa	Supplementary information:							

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CI.	Requirement – Test	Result	Verdict		

8.2A	TABLE: Checking of thread lengths according to table 101 (threadable conduits and threadable conduit fittings)							N/A
		E	xternal thread		Internal thread			
Size	•	Minimum length allowed (mm)	Length measured (mm)	Comply (P-F-N/A)	Minimum length allowed (mm)	Length measured (mm)		Comply -F-N/A)
20		14,0			15,0			
25		17,0			18,0			
32		19,0			20,0			
40		19,0			20,0			

8.2B	ассо	FABLE: Checking of maximum entry diameter and minimum entry length details according to table 102 (non-threadable conduits and non-threadable conduitings)							
Size		Maximum entry diameter allowed (mm)	Entry diameter measured (mm)	Comply (P-F-N/A)	Minimum entry length allowed (mm)	Entry length measured (mm)	Comply (P-F-N/A)		
20		20,5	N/A	N/A	20,0	N/A	N/A		
25		25,5	N/A	N/A	25,0	N/A	N/A		
32		32,6	N/A	N/A	30,0	N/A	N/A		
40		40,7	N/A	N/A	32,0	N/A	N/A		
Supplement	ary inf	ormation:							

8.2C	TABI	E: Checking of minimum inside diame	ter of the conduit system	Р
Size		Minimum inside diameter of the conduit system declared by manufacturer (mm)	Inside diameter of the conduit system measured (mm)	Comply P-F-N/A)
20		16.1	16.20	Р
25		20.8	20.86	Р
32		27.5	27.60	Р
38		34.8	34.92	Р
Supplement	ary inf	ormation:		

9.3 TABLE: Screw test (screw fixing using preformed threads)						
Threaded part identification	Nominal diameter of thread (mm)	Column number of table 3 (I or II)	Applied torque (Nm)	Times (5/10)	Verdict	

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ĺ	CI.	Requirement – Test	Result	Verdict		

Supplementary information:

9.4	TABLE: Screw test (screw fixing using thread-forming screws)							
Threaded part identification		Nominal diameter of thread (mm) Column number of table 3 (I or II)		Applied torque (5/10)		Verdict		
Supplement	ary information:							

10.2	TABLE:	ΓABLE: Compression test							
	Classifica	Classification (first digit)					2/3/4/5		
Size	N° of sample	Ø _{bt} (mm)	F (N)	Ø _{at1} (mm)	[Ø _{bt} - Ø _{at1} / Ø _{bt}]100 ≤ 25 % (%)	Ø _{at2} (mm)	[Ø _{bt} - Ø _{at2} / Ø _{bt}]100 ≤ 10 % (%)	No visible cracks (P/F)	Verdict
	1	19.96	1250	17.26	13.5%	19.84	0.6%	Р	Р
20	2	19.84	1250	16.69	15.9%	19.80	0.2%	Р	Р
	3	19.76	1250	17.26	12.7%	19.72	0.2%	Р	Р

Supplementary information:

F = Compression force, reaching the value shown in table 4 within (30 ± 3) s

= Outside diameter measured before the test

 \emptyset_{at1} = Outside diameter measured after the force given in table 4 has been applied for (60 ± 2) s where flattening has taken place, without removing the force

Outside diameter measured after the test where flattening has taken place, (60 ± 2) s after removal of the force given in table 4 and the intermediate piece

10.3	TABLE:	Impact test						Р
	Classific	ation (second dig	jit)	:	4			_
	Test temperature (table 1) (°C)							_
	Mass of hammer (table 5) (kg)							_
	Fall heig	ht (table 5) (mm)			_			
Ci=o	N° of	Check of possibility to pass the gauge of figure 102 through the sample		visible cracks of			Total n° of samples	Vardiat
Size	sample	N° of samples which passed the test	N° of samples which failed the test	N° of sam which pas the tes	sed	N° of samples which failed the test	which passed the test	Verdict
_	1-12	12	_	12		_	12	Р
— Supplement		12	<u> </u>			_	12	Р

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10.4.101	TABLE:	TABLE: Bending test (metallic or composite conduits)						N/A
Size	N° of sample	Length of sample (mm)	Inside bending radius R (mm)	Welded seam, if any (outside of the bend/on the side)	No visible cracks (P/F)	Seam not opened, if any (P/F)	Section not distorted unduly: test with gauge of figure 102 (P/F)	Verdict
20								
	Supplementary information:							

10.4.102	TABLE:	Bending test (non-metallic or	composite o	conduit	s)	Р
	Type of I	pending aid	Coiled	_		
	Classific	ation (third digit)	:	2		_
		nples conditioned at least 2 h at test temperature le 1) (°C)				_
Size	N° of sample	Possibility to remove the bending aid without damage (P/F)		racks	Possibility to pass the gauge of figure 102 (P/F)	Verdict
	1	Р	Р		Р	Р
20	2	РР			Р	Р
	3	P P P		Р		

10.6.102	TABLE:	Collapse test (non-r	netallic and	d composite	e con	duits)	Р
	Type of I	pe of bending aid:				d spring	_
	Classific	Classification (fourth digit) 1					_
	Test temperature of the heating cabinet at which the support with the sample in position was kept for 24 h ± 15 min (table 2) (°C)						_
Size	N° of sample	Possibility to remove the bending aid without damage (P/F)	No visible cracks (P/F)	Possibility pass the good of figure (P/F)	auge	Possibility to pass the gauge of figure 102 after the heating period of 24 h (P/F)	Verdict
	1	Р	Р	Р		Р	Р
20	2	Р	Р	Р		Р	Р
	3	Р	Р	Р		Р	Р

10.7	TABLE: Tensile test		N/A
	Classification (tenth digit)	2/3/4/5	_
	Increasing tensile force value reached in (30 ± 3) s and then applied for (120 ± 10) s (table 6) (N)		_

Supplementary information:

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Size	N° of assembly sample	Art./Type Ref. of the conduit fittings assembled to the conduit	Elongation occurred (Y/N)	After the test the conduit fittings or terminating conduit fittings remained properly assembled (P/F)	No visible cracks (P/F)	Verdict
Supplement	ary informa	tion:				

10.8	TABLE:	Suspended load tes	t (conduit fitt	ings)				N/A
	Classifica	ation (twe l fth digit)		:	2/3/4/5			_
	Test temperature of the heating cabinet at which the non-metallic and composite conduit fitting was kept during the test (table 2) (°C)				1			
Size	N° of sample	Art./Type Ref. of the conduit fitting	Load (N)) Duration (h		No visible cracks (P/F)	No deformation (P/F)	Verdict
	1							
	2							
	3							
Supplemen	tary inform	ation:						

11.2	TABLE: Bon	ding test			N/A	
	Classification (sixth digit) 1/3					
Size		arrangement fittings coupled together the 10 pieces of weasured (V)				
Supplementary information:						

11.3.1	TABLE: E	lectrical insulating strength and resist	ance test (conduits)	Р
Size	N° of sample	Device incorporated into the circuit not trip during the insulating strength test (P/F)	Insulation resistance measured $(M\Omega)$	Verdict
	1	Р	500	Р
20	2	Р	500	Р
	3	Р	500	Р
Supplement	tary informa	tion:		

11.3.2	TABLE: Electrical insulating strength and resistance test (conduit fittings)				
Size	N° of sample	Art./Type Ref. of the conduit fitting	Device incorporated into the circuit not trip during the insulating strength test (P/F)	Insulation resistance measured $(M\Omega)$	Verdict

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	1	Τ				Γ	
20							
Supplemen	tary informa	tion:					

12	TABLE:	Heating test (conduits)		Р		
	Classific	ation (fourth digit)	: 1	_		
	non-met	Test temperature of the heating cabinet at which the non-metallic and composite conduit fitting was kept for 4 h ± 5 min (table 2) (°C)				
	Classification (first digit)					
	Total mass applied for 24 h ± 5 min in an apparatus as shown in figure 8 (table 9) (kg)					
Size	N° of sample	Sample after the period of 24 h ± 5 min and then cool to room temperature under load: no visible cracks (P/F)	Possibility to pass the gauge of figure 102 immediately after the removal of the load (P/F)	Verdict		
	1	Р	Р	Р		
20	2	Р	Р	Р		
	3	Р	Р	Р		

13.1.3.1	TABLE: Glow-wire test (non-metallic and composite conduit fittings)					
	Material	designation		PVC	_	
	Test temperature (°C)			750	_	
Size	N° of sample	Art./Type Ref. of the conduit fitting	Visible flame or sustained glowing (Y/N)	Time of extinguishment of flames and glowing, if any, after removal of the glow-wire (s)	Verdict	
20						
Supplemer	ntary inform	ation:			•	

13.1.3.2	TABLE: Flame-propagation resistance test (non-metallic and composite conduits)						Р	
	Material designation:							_
Size	N° of sample	Highest mean material thickness (mm)	Flame application time (+1/0) (s)	Sample did not ignite (P/F)	Time of extinguishment of flaming or glowing, if any, after removal of the test flame (s	the tissue	No evidence of burning or charring (P/F)	Verdict
20	1	1.84	35	Υ	0	Р	Р	Р

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				IEC 6138	6-21					
CI.	Requirer	Requirement – Test				Result			Verdict	
									,	
	2	1.82	35	Υ	(0	Р	Р	Р	
	3	1.88	35	Y	(0	Р	Р	Р	
Suppleme	entary inform	nation:		•				•		

14.1.1	TABLE: Verification of protection against ingress of solid objects						
	1	ion - Protection agair eventh digit)	_		_		
	For IP5X,	category 2 applied		_	_		
Size	N° of assembly sample	conduit fitting with a in accordance with the without magnification in the			Verdict		
	1		Р	N/A	Р		
20	2	——————————————————————————————————————	Р	N/A	Р		
	3	_	Р	N/A	Р		
Supplement	ary informa	tion:					

14.1.2 TABLE: Verification of protection against ingress of water	N/A	l
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ANNEX 1 PHOTOGRAPH

PVC Rigid conduits for cable management BSSH 20 20mm 4421

UNIVOLT IEC 61386 20/02/17 10:41:29 **BSSH 20 **

2 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46

BSSH 25 25mm 4421 BSSH 32 32mm 4421 BSSH 40 40mm 4421

UNIVOLT IEC 61386 16/02/17 13:37:54 *BSSH 25 *

UNIVOLT IEC 51386 13/01/17 11:32:40 *BSSH 32*

UNIVOLT IEC 61386 20/02/17 10:45:13 *BSSH 40*

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

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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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