

TEST REPORT

**CTK Co., Ltd.**

5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea
Tel: 1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01680
Page (1) / (24) pages

1. Applicant

- Name : Hanwha Vision Co., Ltd.
- Address : 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13488 KOREA
- Date of Receipt : May. 14, 2026

2. Manufacturer

- Name : HANWHA VISION VIETNAM COMPANY LIMITED
- Address : Lot O-2, Que Vo Industrial Zone extended area, Nam Son ward,
Bac Ninh city, Bac Ninh province, Vietnam

3. Use of Report :

Quality control

4. Test sample / Model :

NETWORK CAMERA / TNO-A45090R

5. Date(s) of test :

May. 20, 2026

6. Test Standard (Method) used :

NEMA 250-2020

Enclosures for Electrical Equipment (1000 Volts Maximum)

Temperature: (25 ± 10) °C, Humidity: (50 ± 25) % R.H.

7. Testing Environment :

Pressure: (96 ± 10) kPa

8. Test Results :

Refer to the test results

9. Location of Test :

☒ Permanent Testing Lab ☐ On Site Testing

(5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

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Approval	Tested by	Technical Manager
	Name: HongBeom Jeon (Signature) 	Name: HoHyun Lee (Signature) 

Remark. This report is not related to ISO/IEC 17025, KOLAS accreditation and relevant regulation.

Jun. 26, 2026

CTK Co., Ltd.



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REPORT No.:
CTK-2026-01680
Page (2) / (24) pages

Table of Contents

1. Testing laboratory	3
1.1 Testing laboratory information.....	3
1.2 Testing laboratory accreditation status.....	3
2. Sample description and equipment information	3
2.1 Sample description	3
2.2 Manufacturer information.....	4
2.3 Equipment information.....	5
2.4 Pre-test sample images	6
2.5 Testing equipment images	7
2.6 Sample appearance	8
2.7 Construction Diagram including installation method.....	9
3. Test Information.....	10
3.1 Test item particulars and Possible test case verdicts	10
3.2 General remarks and factory information.....	10
3.3 Type 4X Test information	11
3.4 NEMA 250-2020 Test list	13
3.5 Parts List	16
4. Hose Down Test (Clause 5.7)	20
4.1 Test date and environmental conditions.....	20
4.2 Test Conditions and methods.....	20
4.3 Test Setup and During test sample images.....	21
4.4 Test result.....	22
4.5 Post-test sample images	23

 CTK Co., Ltd. 5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea Tel: 1551-9871 Fax: +82-31-624-9501	REPORT No.: CTK-2026-01680 Page (3) / (24) pages	
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1. Testing laboratory

1.1 Testing laboratory information

Lab. Name	CTK Co., Ltd.
Representative	Young Joseph Seungwon
Address	5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Tel.	1551-9871
Fax.	+82-31-624-9501
E-Mail	all.youngin@element.com
Website	www.elementkorea.kr

1.2 Testing laboratory accreditation status

Country	Classification	Accreditation Number	Logo
International	KOLAS	TESTING NO. KT119	

2. Sample description and equipment information

2.1 Sample description

Sample Name	Model Name	S/N	Date of Manufacture	Quantity	Comment
NETWORK CAMERA	TNO-A45090R	ZVYW70GL50000CB	May. 2026	1 EA	-



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REPORT No.:
CTK-2026-01680
Page (4) / (24) pages

2.2 Manufacturer information

Test item description : NETWORK CAMERA

Trade Mark :



Manufacturer : Lot O-2, Que Vo Industrial Zone extended area, Nam Son ward, Bac Ninh province, Vietnam

Model/Type reference : TNO-A45090R

Ratings :

Electrical
TNO-A45090R DC 12 V 3.11 A /
PoE(55 V) 0.72 A
TNO-A45080R DC 12 V 3.11 A /
PoE(55 V) 0.72 A

Dimension:

Ø 180 mm by 565.2 mm, Ø 70 mm by 219.8 mm, Ø 4*12 mm by
150.72 mm, 486 mm, 452 mm, 28.5 mm 252 mm

List of Attachments (including a total number of pages in each attachment):

Attachment 1: 8-9 pages (Construction Diagram including installation method)

Attachment 2: 16-19 pages (Parts List)

Attachment 3: 21-24 pages (photographs)

Summary of testing:

Tests performed (name of test and test clause):
Clause 5.7(Hose Down Test)

Testing location:

CTK Co., Ltd.
5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea

Copy of marking plate: The artwork above may be only a draft.

제품명칭: NETWORK CAMERA

모델명: TNO-A45090R

정격전압: DC 12V 37.3W /

PoE (55V) 39.4W

M/C: TNO-A45090R/KDO Fac.ID: D

2026.06 S/N: Serial No.

MAC ADDRESS: XX-XX-XX-XX-XX-XX

인증번호: R-R-HWVS-TNOA45090R

상호: 한화비전(주)

제조자/제조국가:한화비전(주)/한국

IP66/IP67



NETWORK CAMERA,TNO-A45090R

DC 12V 3.11A /

PoE(55V) 0.72A

M/C: TNO-A45090R/KEX Fac.ID:D

2026.06 S/N: Serial No.

MAC ADDRESS: XX-XX-XX-XX-XX-XX

CAN ICES-3(A)/NMB-3(A)

HANWHA VISION CO.,LTD.

MADE IN KOREA



Rainproof/ Étanche
IP66 and IP67

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제품명칭: NETWORK CAMERA
모델명: TNO-A45080R
정격전압: DC 12V  37.3W /
PoE (55V ) 39.4W
M/C: TNO-A45080R/KDO **Fac. ID:** D

2026.06 S/N: Serial No.
MAC ADDRESS: XX-XX-XX-XX-XX-XX
인증번호: R-R-HWVS-TNOA45080R
상호: 한화비전(주)
제조사/제조국가: 한화비전(주)/한국



IP66/IP67
NETWORK CAMERA, TNO-A45080R
DC 12V  3.11A /
PoE(55V ) 0.72A
M/C: TNO-A45080R/KEX **Fac. ID:** D

2026.06 S/N: Serial No.
MAC ADDRESS: XX-XX-XX-XX-XX-XX
CAN ICES-3(A)/NMB-3(A)
HANWHA VISION CO.,LTD.
MADE IN KOREA



Rainproof/ Étanche
IP66 and IP67

2.3 Equipment information

Testing equipment	Model Name	Manufacturer	Manufacturing Number	Next Cal. Date
25.4 mm Nozzle	S3-IP18	CTK	S3-IP18	-
Area flow meter	Z-6504	FLOWTECH	0064	Jan. 19, 2027
Steel measuring meter	5.5 m	KOMELON	225851	Jan. 13, 2028
Stop Watch	NONE	Casio	612Q01R-1	Jan. 15, 2027
Digital Vernier Calipers	100 mm	MITUTOYO	A17179462	-



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REPORT No.:
CTK-2026-01680
Page (6) / (24) pages

2.4 Pre-test sample images

2.4.1 Test sample



Top



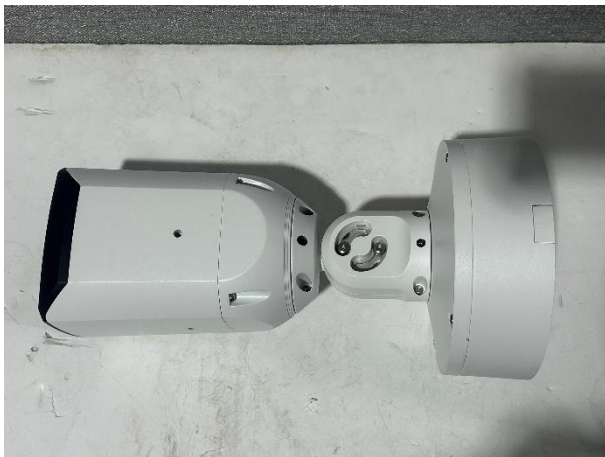
Bottom



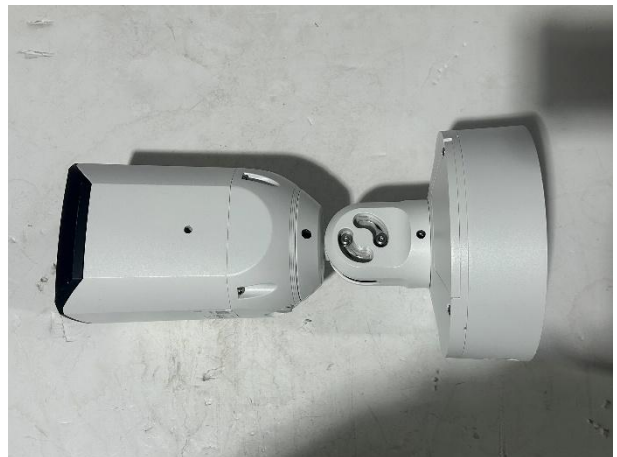
Front



Rear



Left side



Right side



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REPORT No.:
CTK-2026-01680
Page (7) / (24) pages

2.5 Testing equipment images

2.5.1 Test equipment



25.4mm Nozzle



Digital Vernier Calipers



Area flow meter



Steel measuring meter



Stop Watch



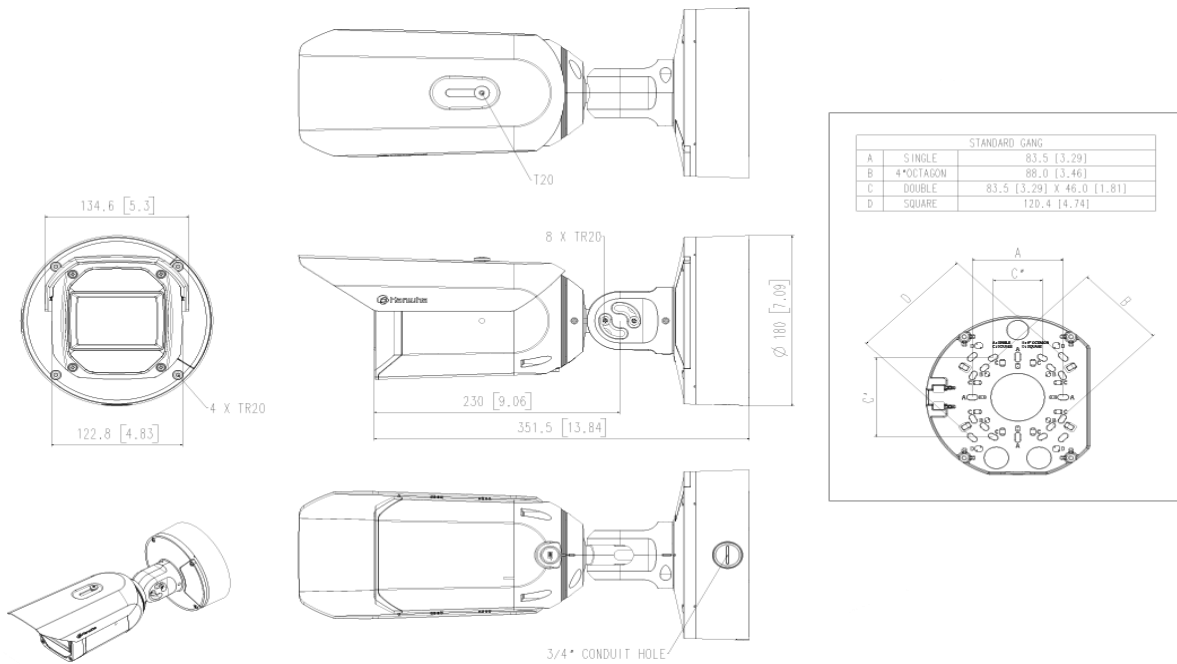
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Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01680
Page (8) / (24) pages

2.6 Sample appearance

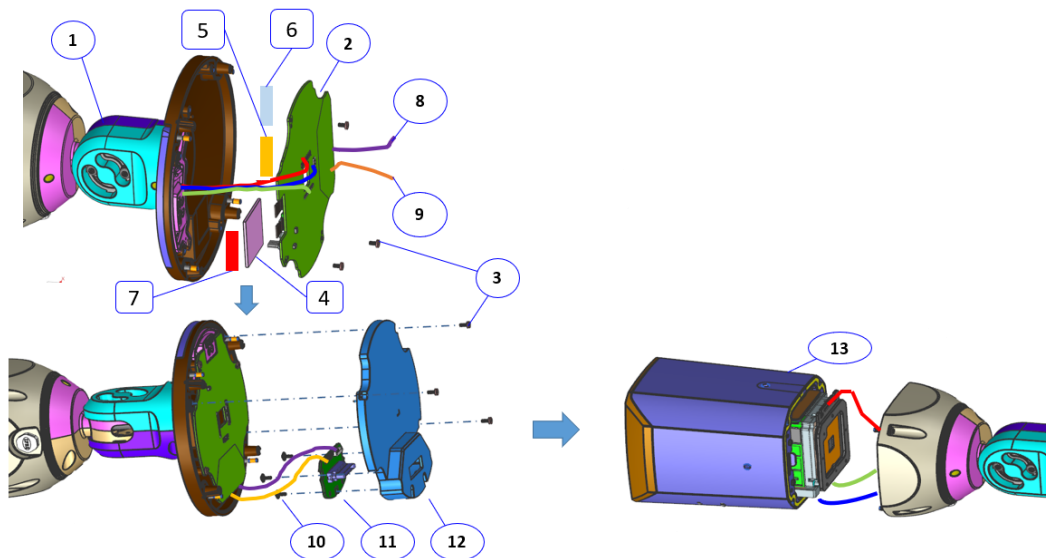
Enclosure dimensions [unit : mm]



2.7 Construction Diagram including installation method

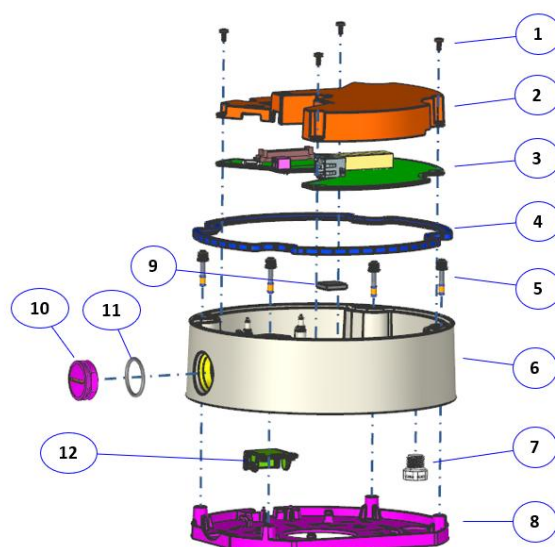
ASSY,HALF

- AM08-008173A (ASSY-HALF;TNO-A45080R)
- AM08-008172A (ASSY-HALF;TNO-A45090R)



ASSY-COVER-BOTTOM_BB

- AM08-008159A (ASSY,COVER-BOTTOM_BB;TNO-A45090R)



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REPORT No.:
CTK-2026-01680
Page (10) / (24) pages

3. Test Information

3.1 Test item particulars and Possible test case verdicts

Test item particulars	NETWORK CAMERA
Classification of installation and use	Outdoor (Watertight/Corrosion Resistant)
Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement.....	P (Pass)
- test object does not meet the requirement	F (Fail)
- test case does not evaluate to the test object:	N/E

3.2 General remarks and factory information

General remarks:
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☐ comma / ☒ point is used as the decimal separator. Clause numbers between brackets refer to clauses in NEMA 250-2020
Name and address of factory (ies):
1. HANWHA VISION VIETNAM COMPANY LIMITED Lot O-2, Que Vo Industrial Zone extended area, Nam Son ward, Bac Ninh province, Vietnam 2. D-TECH CO., LTD. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex)



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REPORT No.:
CTK-2026-01680
Page (11) / (24) pages

3.3 Type 4X Test information

Type 4X

Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water); that provides an increased level of protection against corrosion; and that will be undamaged by the external formation of ice on the enclosure.

Table 2-1
Comparison of Specific Applications of Enclosures for Indoor Nonhazardous (Unclassified) Locations

Provides a Degree of Protection against the Following Conditions	Type of Enclosure									
	1	2	4	4X	5	6	6P	12	12K	13
Access to hazardous parts	X	X	X	X	X	X	X	X	X	X
Ingress of solid foreign objects (falling dirt)	X	X	X	X	X	X	X	X	X	X
Ingress of water (dripping and light splashing)	...	X	X	X	X	X	X	X	X	X
Ingress of solid foreign objects (circulating dust, lint, fibers, and flyings **)	...	...	X	X	...	X	X	X	X	X
Ingress of solid foreign objects (settling airborne dust, lint, fibers, and flyings **)	...	...	X	X	X	X	X	X	X	X
Ingress of water (hosedown and splashing water)	...	...	X	X	...	X	X	...	...	...
Oil and coolant seepage	...	...	...	...	...	...	...	X	X	X
Oil or coolant spraying and splashing	...	...	...	...	...	...	...	...	...	X
Corrosive agents	...	...	...	X	...	...	X	...	...	...
Ingress of water (occasional temporary submersion)	...	...	...	...	...	X	X	...	...	...
Ingress of water (occasional prolonged submersion)	...	...	...	...	...	...	X	...	...	...

** These fibers and flyings are not considered Class III type ignitable fibers or combustible flyings. For Class III type ignitable fibers or flyings see the *National Electrical Code*®, Article 500.5(D).

Table 2-2
Comparison of Specific Applications of Enclosures for Indoor & Outdoor Nonhazardous (Unclassified) Locations

Provides a Degree of Protection Against the Following Conditions	Type of Enclosure									
	3	3X	3R	3RX	3S	3SX	4	4X	6	6P
Access to hazardous parts	X	X	X	X	X	X	X	X	X	X
Ingress of solid foreign objects (falling dirt)	X	X	X	X	X	X	X	X	X	X
Ingress of water (dripping and light splashing)	X	X	X	X	X	X	X	X	X	X
Ingress of water (rain, snow, and sleet **)	X	X	X	X	X	X	X	X	X	X
Sleet ***	...	...	...	...	X	X	...	...	...	...
Ingress of solid foreign objects (windblown dust, lint, fibers, and flyings****)	X	X	...	...	X	X	X	X	X	X
Ingress of water (hosedown and splashing water)	...	...	...	...	...	...	X	X	X	X
Corrosive agents	...	X	...	X	...	X	...	X	...	X
Ingress of water (occasional temporary submersion)	...	...	...	...	...	...	...	...	X	X
Ingress of water (occasional prolonged submersion)	...	...	...	...	...	...	...	...	...	X

** External operating mechanisms are not required to be operable when the enclosure is ice covered.

*** External operating mechanisms are operable when the enclosure is ice covered. See subsection 5.6.

**** These fibers and flyings are not considered Class III type ignitable fibers or combustible flyings. For Class III type ignitable fibers or flyings see the *National Electrical Code*®, Article 500.5(D).

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REPORT No.:
CTK-2026-01680
Page (12) / (24) pages

Table 5-1A
Degrees of Protection Against Access to Hazardous Parts

Enclosure Type	Test Conditions	Degree of Protection		Corresponding IP First Characteristic Numeral
		Brief Description	Definition	
4X	5.7	Protected against access to hazardous parts with a wire	An access probe of 1.0 mm shall not penetrate	6

Table 5-1B
Degrees of Protection Against Solid Foreign Objects

Enclosure Type	Test Conditions	Degree of Protection		Corresponding IP First Characteristic Numeral
		Brief Description	Definition	
4X	<u>Non-vented</u> 5.7	Windblown dust protected	No ingress of dust	6
	<u>Vented</u> 5.5.1 Dust Blast Method			

Table 5-1C
Degrees of Protection against Water

Enclosure Type	Test Conditions	Degree of Protection		Corresponding IP Second Characteristic Numeral
		Brief Description	Definition	
4X	5.7	Protected against hose directed water	Water projected against the enclosure in any direction shall not enter	6 No Ingress Allowed*

Table 5-1D
Additional Protection

Enclosure Type	Test Conditions	Additional Protection		Corresponding IP Second Characteristic Numeral
		Brief Description	Definition	
4X	5.6 5.9 5.10	Special corrosion protection and undamaged by the external formation of ice	Enclosure provides increased corrosion protection and is not damaged by ice that forms on the outside	None

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REPORT No.:
CTK-2026-01680
Page (13) / (24) pages

3.4 NEMA 250-2020 Test list

NEMA 250-2020			
Clause	Requirement + Test	Result – Remark	Verdict
3	CONSTRUCTION		
3.1	General		P
3.2	Units of Measurement		P
3.3	Materials-General	Enclosures are made of metal or polymeric materials	P
3.4	Materials-Polymeric	More than 650 mm ² (1 in ²) in area Polymeric Materials used is declared as Min. V-2 Used to UL certified material. (See the attachment 2)	N/E
3.5	Corrosion Protection	Stainless steel and/or aluminium are declared as the materials used (See the attachment 2)	N/E
3.6	Openings	No openings in Product	P
3.7	Mounting	Mounting means are external to the equipment cavity (See the attachment 1)	N/A
3.8	Conduit Connection	No conduit connection (See the attachment 1)	N/A
3.9	Hubs and Fittings	No Hubs and Fittings	N/A
3.10	Knockouts	No Knockouts	N/A
3.11	External Operating Mechanisms	No External Operating Mechanisms	N/A
3.12	Access to Interior	Needs tool to open unit	P
3.13	Closing Hardware	No closing Hardware	N/A

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REPORT No.:
CTK-2026-01680
Page (14) / (24) pages

NEMA 250-2020

Clause	Requirement + Test	Result – Remark	Verdict
3.14	Gaskets	Gaskets made of a silicone Sponge Rubber (no Elastomeric or Thermoplastic used) (See clause 5.14 and the attachment 2)	N/E
3.15	Observation Windows	No Observation Window	N/A

4	MARKING		
4.1	Type Designations	“Type 4X” Marking is declared to be on the product before on the market	P
4.2	Supplemental Markings	Supplemental Marking (watertight/corrosion resistant) is declared to be used when it is on the market. The required marking shall be added on the product	P
4.3	Location of Markings	See the Attachment 3	P
4.4	Enclosure Orientation	No Particular Mounting Orientation	N/A
4.5	Conduit Hubs and Closure Plates	No Conduit Hubs and Closure Plates	N/A
4.6	Equipment Openings	No Openings on Unit	N/A
4.7	Drainage Openings	No Drain Openings	N/A

5	DESIGN TESTS		
5.1	General	See Table 5-1A to 5-1D and 5.1.5 in the General product information	P
5.2	Tests For Protection Against Access to Hazardous Parts	Rated 4X	N/A
5.3	Tests for Protection Against Ingress of Water (Dripping and Light Splashing)	Rated 4X	N/A

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REPORT No.:
CTK-2026-01680
Page (15) / (24) pages

NEMA 250-2020

Clause	Requirement + Test	Result – Remark	Verdict
5.4	Tests for Protection Against Ingress of Water (Rain)	Rated 4X	N/A
5.5	Tests for Protection Against Ingress of Solid Foreign Objects (Setting Airborne Dust, Lint, Fibers, And Flings)	Non-vented (See clause 5.7)	N/A
5.6	External Icing Test	No external cavities to trap water when mounted in the normal position.	N/A
5.7	Tests for Protection Against Ingress of Water (Hosedown)	No entry of water See the test information	P
5.8	Indoor Corrosion Protection (Rust-Resistance Test (24-Hour Salt Spray Test))	See clause 3.5	N/E
5.9	Outdoor Corrosion Protection	See clause 3.5	N/E
5.10	Corrosion Protection-Type 3X, 3RX, 3SX, 4X Or 6P Enclosures	See clause 3.5	N/A
5.11	Test for Protection Against Ingress of Water (Temporary Submersion)	Rated 4X	N/A
5.12	Test for Protection Against Ingress of Water (Prolonged Submersion)	Rated 4X	N/A
5.13	Oil Exclusion Test	Rated 4X	N/A
5.14	GASKET MATERIAL TESTS	The product itself(including gaskets) was conditioned at 70 °C for 168 h according to 5.14.3(Alternate Evaluation) before performing relevant required tests.	N/E
5.15	Test for Sharpness of Edges	No sharp edges	P

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REPORT No.:
CTK-2026-01680
Page (16) / (24) pages

3.5 Parts List

3.5.1 Parts List

No	PART NO.	PART NAME	Q'TY
	<u>AM08-008159A</u>	<u>ASSY-COVER-BOTTOM BB;TNO-A45090R</u>	<u>1</u>
1	Z6001049601A	SCREW-MACHINE,M3.L6	4
2	FC39-008194A	FRAME-BOTTOM_BB;TNO-A450X0R	1
3	AM06-012189A	ASSY,PCB-TNO-A45080R POWER PBA	1
4	HP07-002116A	GASKET,BOTTOM-BB;TNO-A450X0R	1
5	FC18-006121B	SCREW-MACHINE_TROX20,M4,L20	4
6	FC29-018804A	CASE-BOTTOM_BB;TNO-A450X0R	1
7	HP06-001351	VENT-GORE-PMF100586-WHT;	1
8	FC39-008195A	MOUNT-PLATE-BB;TNO-A450X0R	1
9	FC28-004033A	PAD-THERMAL,15*15*T3.0,7W	1
10	FC29-003420D	CAP-BOLT-SBP-300BW	1
11	FC18-001028A	O-RING	1
12	FC29-018803A	CAP-CABLE;TNO-A450X0R	1

No	PART NO.	PART NAME	Q'TY
	<u>AM08-008173A</u>	<u>ASSY-HALF;TNO-A45080R</u>	<u>1</u>
	<u>AM08-008172A</u>	<u>ASSY-HALF;TNO-A45090R</u>	<u>1</u>
1	<u>AM08-008168A</u>	<u>ASSY-HALF-ARM;TNO-A45090R</u>	<u>1</u>
2	AM06-012192A	ASSY,PCB-TNO-A45080R MAIN PBA	1
3	Z6001049601A	SCREW-MACHINE,M3.L6	6
4	FC28-004066A	PAD-THERMAL,40*40*T2.0,7W	1
5	Z7309064501A	PAD-THERMAL,14*14*T3.0	1
6	FC28-002474A	PAD-THERMAL,28*22*T2.0	1
7	FC36-001550A	SHEET-PNM-C16000QB ESD ABSORBER;FA14STX,40X40,0.53T	1
8	EP02-005676A	HARNESS-1.25HOUSING;1:1,WIRE,WH,BL,DC300V/2. 6A,10P-10P,100MM/AWG28,UL1061	1
9	EP02-004794A	HARNESS-XNP-9300RW;MCX,50P-50P,100MM	1
10	Z6009001301A	SCREW-TAPPING,PWH.M3.L6	3
11	AM06-012193A	ASSY,PCB-TNO-A45080R CONNECTOR PBA	1
12	FC39-008193A	FRAME-TOP-BB;TNO-A450X0R	1
13	<u>AM08-008171A</u>	<u>ASSY-HALF-CAMERA;TNO-A45080R</u>	<u>1</u>
	<u>AM08-008170A</u>	<u>ASSY-HALF-CAMERA;TNO-A45090R</u>	<u>1</u>

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REPORT No.:
CTK-2026-01680
Page (17) / (24) pages

3.5.2 Parts List (2)

Component - Plastics			Yellow Card™	
HN-1068(+)(f1)				
LOTTE CHEMICAL CORPORATION			File Number: E115797	
56 GOSAN-RO UIWANG-SI, GYEONGGI-DO 16073 Republic of Korea				
INFINO: HN-1068(+)(f1)				
Polycarbonate (PC), pellets				
(+)- May be replaced by one, two, or three numbers and/or letter(s)				
(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.				
			 ALSO CERTIFIED TO IEC REQUIREMENTS	
Flammability			Value	Test Method
Flame Rating				UL 94
1.5 mm, ALL			V-0	IEC 60695-11-10, -20
3.0 mm, ALL			V-0	
Glow Wire Flammability Index				IEC 60695-2-12
1.5 mm			960 °C	
3.0 mm			960 °C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.5 mm			825 °C	
3.0 mm			825 °C	
Electrical			Value	Test Method
Hot-wire Ignition (HWI) (1.5 mm)			PLC 3	UL 746A
High Amp Arc Ignition (HAI) (1.5 mm)			PLC 3	UL 746A
Comparative Tracking Index (CTI)			PLC 3	UL 746A
Dielectric Strength			32kV/mm	ASTM D149
Volume Resistivity			1.0E+17 ohms-cm	ASTM D257 IEC 60093
Thermal			Value	Test Method
RTI Elec				UL 746B
1.5 mm			130 °C	
3.0 mm			130 °C	
RTI Imp				UL 746B
1.5 mm			130 °C	
3.0 mm			130 °C	
RTI Str				UL 746B
1.5 mm			130 °C	
3.0 mm			130 °C	
Ball Pressure Test (130 °C)			Pass	IEC 60695-10-2
Physical			Value	Test Method
Outdoor Suitability			f1	UL 746C



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REPORT No.:
CTK-2026-01680
Page (18) / (24) pages

3.5.3 Parts List (3)

UL Product iQ®



Model EXL1434T (GG)(f1)(N1)(BK47)

File Number: E121562

Yellow Card™



COMPANY

SABIC INNOVATIVE PLASTICS US L L C
AMERICAS - RESIN
1 PLASTICS AVE
PITTSFIELD, MA 01201-3662 United States

MODEL INFO

Lexan: EXL1434T (GG)(f1)(N1)(BK47)

PC/Siloxane, UV Stabilized, furnished as pellets

(N1) – Natural Color represents color code NABA005T

(GG) – Denotes a global grade formulation previously in File E161759.

(f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

NOTE – Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or numeric/alpha combination.

(BK47) – Black Color represents color code 7N1A6522T

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
0.8 mm, Color: BK	HB	
1.5 mm, Color: NC, BK	HB	
2.5 mm, Color: NC, BK	HB	
3.0 mm, Color: NC, BK	V-2	
ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
0.8 mm, Color: BK	HB75	
1.5 mm, Color: NC, BK	HB75	
2.5 mm, Color: NC, BK	HB75	
3.0 mm, Color: NC, BK	V-2	
Glow Wire Ignition Temperature (GWIT)		IEC 60695-2-13



3.5.4 Parts List (4)

0.8 mm	850 °C		
1.5 mm	850 °C		
2.5 mm	850 °C		
3.0 mm	850 °C		
Glow Wire Flammability Index (GWFI)		IEC 60695-2-12	
0.8 mm	825 °C		
1.5 mm	825 °C		
2.5 mm	825 °C		
3.0 mm	960 °C		
THERMAL PROPERTIES		VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength			UL 746B
0.8 mm	80 °C		
1.5 mm	130 °C		
2.5 mm	130 °C		
3.0 mm	130 °C		
Relative Thermal Index - Mechanical Impact			UL 746B
0.8 mm	80 °C		
1.5 mm	120 °C		
2.5 mm	120 °C		
3.0 mm	120 °C		
Relative Thermal Index - Mechanical Strength			UL 746B
0.8 mm	80 °C		
1.5 mm	130 °C		
2.5 mm	130 °C		
3.0 mm	130 °C		
PHYSICAL PROPERTIES		VALUE	TEST METHOD
UV Exposure & Water Immersion		f1	UL 746C

Report Date: 2003-11-11
Revision Date: 2024-02-14

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REPORT No.:
CTK-2026-01680
Page (20) / (24) pages

4. Hose Down Test (Clause 5.7)

4.1 Test date and environmental conditions

4.1.1 Test date: May. 20, 2026

4.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	24.8	50.3	100.3

4.2 Test Conditions and methods

4.2.1 Description of Test

The enclosure and its external mechanisms were subjected to a stream of water from a hose that has a 25.4 mm (1 in) inside diameter nozzle and delivers at least 240 L/min (65 gal). The nozzle was held from 3.0 to 3.5 m (10 to 12 feet) from the enclosure, and the spray of water was directed at all points of potential water entry such as seams, joints, external operating mechanisms, and such. The nozzle was moved along each test point one time at a uniform rate of 6 mm/s (1/4 in/s).

4.2.2 Sample Dimension

Ø 180 mm by 565.2 mm, Ø 70 mm by 219.8 mm, Ø 4*12 mm by 150.72 mm, 486 mm, 452 mm, 252 mm, 28.5 mm Test Duration = 359 s

4.2.3 Acceptance conditions

The enclosure shall be considered to have met the requirements if at the conclusion of the test no water has entered the enclosure



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REPORT No.:
CTK-2026-01680
Page (21) / (24) pages

4.3 Test Setup and During test sample images

4.3.1 Evidence of test setting



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REPORT No.:
CTK-2026-01680
Page (22) / (24) pages

4.4 Test result

4.4.1 Test result table

Sample No (Model)	Water Flow	Presence of water inside	Result
TNO-A45090R	240 L/min	No	Pass

※ Refer to the sample photos after the completion of testing in section 4.5.



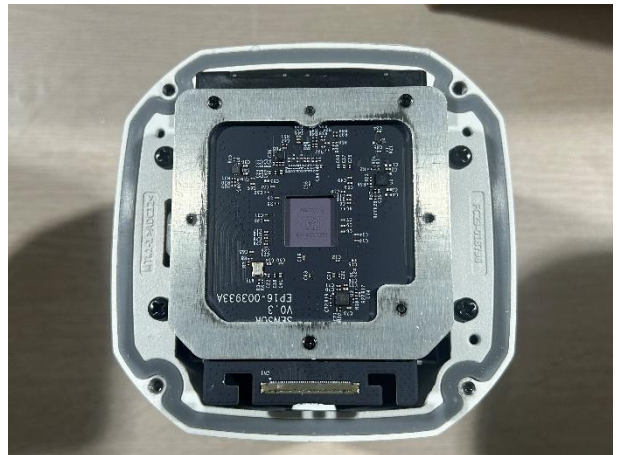
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REPORT No.:
CTK-2026-01680
Page (23) / (24) pages

4.5 Post-test sample images

4.5.1 Test sample image





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REPORT No.:
CTK-2026-01680
Page (24) / (24) pages

4.5.2 Test sample image



- End -