



CENTRE OF TESTING SERVICE INTERNATIONAL

OPERATE ACCORDING TO ISO/IEC 17025

LVD TEST REPORT

TEST REPORT NUMBER: C3190816006-L

CTS(Ningbo) Testing Service Technology Co., Ltd.
Fl.1&8 West, Bldg. B, No.66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China



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1 General Information

Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has Passed all the relevant tests conforms to a specification (only telecommunication products).

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5. The test report may only be reproduced or published in full.

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Date:23August2023

Tester

Tested by:

23August2023

RockWeng

Date

Name

Signature

Reviewed by:

23August2023

JesseHuang

Date

Name

Signature

Approved by:

23August2023

Lei Zhang

Date

Name

Signature



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CTS(Ningbo)TestingServiceTechnologyCo.,Ltd.

Fl.1&8West,Bldg. B,No.66,Qingyi Rd.,Hi-TechZone,Ningbo,Zhejiang, China

Tel: +86-574-87912121(16 lines)

Fax: +86-574-87907993

Complaintline: +86-574-87908003

E-mail: cts@cts-lab.com

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Date:23August2023

Detailsofmanufacturer

Name :ORTACLAR ELEK. SAN. VE. TIC. LTD. STI
Street :HADIMKOY MH. IBNI. SINA CD NO.9 34555
Town :ARNAVUTKOY ISTANBUL
Country : TURKEY
Telephone : /
Fax : /
Teletex : /
Contact : /
Telephone : /

Detailsoffactory

Name :ORTACLAR ELEK. SAN. VE. TIC. LTD. STI
Street :HADIMKOY MH. IBNI. SINA CD NO.9 34555
Town :ARNAVUTKOY ISTANBUL
Country : TURKEY

Datesofapplication

Date of receipt of application :19August2023
Dateofreceipt oftest item : 19 August2023
Dateoftest :19August2023-23 August2023

TestitemDescription

Descriptionoftestitem

Typeofproduct : Metallic Flexible Conduit
Model/Typereference : OPCS & LGT with connectors LSRM & DPJ
Serialnumber :---

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Testitemparticulars

Test item.....:	Metallic Flexible Conduit
Trade Mark.....:	/
Protection Class.....:	<input type="checkbox"/> Class I; <input type="checkbox"/> ClassII; <input type="checkbox"/> ClassIII. <input type="checkbox"/> Other: N.A
IP Number.....:	<input checked="" type="checkbox"/> IP_65_ : Immersion <u>1.5</u> minthwater; Test for 40 min
RatedVoltage(Range).....:	/
RatedWattage.....:	/
Supply Connection.....:	<input type="checkbox"/> Type X; <input type="checkbox"/> Type Y; <input type="checkbox"/> Type Z; <input type="checkbox"/> Pins; <input type="checkbox"/> Appliance inlet; <input type="checkbox"/> Terminals; <input type="checkbox"/> connecting leads (tails); <input type="checkbox"/> Adaptors; <input type="checkbox"/> connectors; <input checked="" type="checkbox"/> Other:N.A
ApplianceMobility.....:	<input type="checkbox"/> Portable Appliance; <input type="checkbox"/> Hand-heldAppliance; <input type="checkbox"/> Stationary Appliance; <input checked="" type="checkbox"/> Fixed Appliance; <input type="checkbox"/> Built-in Appliance
Instructions language.....:	<input type="checkbox"/> English; <input type="checkbox"/> French; <input checked="" type="checkbox"/> Other:N.A

(allinformationswasprovidedbytheapplicantordetectedatthesample) Please see also attachment

Teststandards

EN60529:1991+A1:2000+A2:2013 (onlyIP65test)
Degreesofprotectionprovidedbyenclosures(IPCode)



2 Technicaltest

Summaryoftestresults

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



Testenvironment

Temperature:	15...25°C
Relativehumiditycontent:	20...75%
Air pressure:	86...103k Pa
Details of power supply:	---
Other parameters:	---



Conformityverification-Summaryofinspection

Clause	Summary of inspection	Test result		
		N.A.	Pass	Fail
4	Designations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Degrees of protection against access to hazardous parts and against solid foreign objects indicated by the first characteristic numeral	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Degrees of protection against ingress of water indicated by the second characteristic numeral	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Degrees of protection against access to hazardous parts indicated by the additional letter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Supplementary letters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Examples of designations with the IP Code	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Marking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	General requirements for tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	Tests for protection against access to hazardous parts indicated by the first characteristic numeral	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	Tests for protection against solid foreign objects indicated by the first characteristic numeral	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	Tests for protection against water indicated by the second characteristic numeral	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	Tests for protection against access to hazardous parts indicated by the additional letter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Annexes		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Test case verdicts

N.A.: Test case does not apply to the test object Pass: Test item does meet the requirement

Fail: Test item does not meet the requirement



3 Testresultsbasicstandard(s)

Particulars:testitemvs.testrequirements

EN60529 Degreesofprotectionprovidedbyenclosures(IPCode)	
Possibletestcaseverdicts:	
- testcasedoesnotapplytothetestobject.....:N(N/A)	
- testobjectdoesmeettherequirement.....:P(Pass)	
- testobjectdoesnotmeettherequirement.....:F(Fail)	
Testspecification:	
Standard.....:	<input type="checkbox"/> IEC 60529:1989+A1:1999+A2:2013 <input checked="" type="checkbox"/> EN 60529:1991+A1:2000+A2:2013
Testprocedure.....:	LVDDOCapproval.
Non-standardtestmethod.....:	N/A
TestReportFormNo:	EN60529B
TestReportForm(s)Originator.....:	CentreofTestingService
MasterTRF.....:	DatedMay 2023
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Generalremarks:
“(see remark #)” refers to a remark appended to the report.
“(see appended table)” refers to a table appended to the report.
Throughout this report a comma is used as the decimal separator.
The test results presented in this report relate only to the object tested.
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General requirements and results

EN60529			
clause	Requirement-Test	Result	Verdict
4	Designations		—
4.1	Arrangement of the IP code	IP65	P
5	Degrees of protection against access to hazardous parts and against solid foreign objects indicated by the first characteristic numeral		—
5.1	protection against access to hazardous parts, see table I	IP6X	P
5.2	Protection against solid foreign objects, see table II	IP6X	P
6	Degrees of protection against ingress of water indicated by the second characteristic numeral		—
	protection against ingress of water by the second characteristic numeral, see table III	IPX5	P
7	Degrees of protection against access to hazardous parts indicated by the additional letter		N
8	Supplementary letters		N
9	Examples of designations with the IP code	IP65	P
10	Marking		—
	the requirements for markings shall be specified in the relevant product standard.		N
	Where appropriate, such a standard should also specify the method of marking which is to be used when:		N
	-Each part have a different degree of protection that in the same enclosure		N
	-The mounting position has an influence on the degree of protection		N
	-The maximum immersion depth and time are indicated.		N
11	General requirements for tests		—

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Fl.1&8West,Bldg. B,No.66,Qingyi Rd.,Hi-TechZone,Ningbo,Zhejiang, China

Tel: +86-574-87912121(16 lines)

Fax: +86-574-87907993

Complaintline: +86-574-87908003

E-mail: cts@cts-lab.com

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EN60529			
clause	Requirement-Test	Result	Verdict
	Testspereformedaccordingtocl.11,e.g.atmospheric conditions, test samples, etc.		P

12	Testsforprotectionagainstaccessstohazardouspartsindicatedbythefirst characteristic numeral		—
12.1	Accessprobes,seethetable VI	IP6X	P
12.2	Use a low-voltage supply in series with a suitable lamp should be connected between the probe and the hazardous parts		P
12.3.1	LowVoltageappliances(upto1000VAC/1500VDC)		P
	theprobeshallnotcomeincontactwithliveparts.		P
	Compliancewasprovedbyacontinuitytestwiththe probe		P
	A (spherediameter50mmforIP1X,withtestforce 50N±10%)		N
	B (testfingerdiameter12mmforIP2X,withtestforce 10N±10%)		N
	C (stickdiameter2,5mmforIP3X,withtestforce 3N±10%)		N
	D (wirediameter1,0mmforIP4X,IP5X,IP6Xwithtest force 1N±10%)	IP6X	P
12.3.2	HighVoltageappliances(over1000VAC/1500V DC)		N
	theprobeshallnotcomeneartolifepartsthatclearances are reduced.		N
	Compliancewastestedwiththefollowingprobein conjunction with the high- voltage test		N
	A (spherediameter50mmforIP1X,withtestforce 50N±10%)		N
	B (testfingerdiameter12mmforIP2X,withtestforce 10N±10%)		N
	C (stickdiameter2,5mmforIP3X,withtestforce 3N±10%)		N
	D (wirediameter1,0mmforIP4X,IP5X,IP6Xwithtest force 1N±10%)		N
12.3.3	LowVoltageapplianceswithhazardousmechanicalparts		N
	theprobeshallnotcomeincontactwiththesehazardous mechanical parts		N
	Complianceistestedwiththecontinuitytestwiththe probe		N
	A (spherediameter50mmforIP1X,withtestforce 50N±10%)		N
	B (testfingerdiameter12mmforIP2X,withtestforce 10N±10%)		N
	C (stickdiameter2,5mmforIP3X,withtestforce 3N±10%)		N

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Tel: +86-574-87912121(16 lines)

Fax: +86-574-87907993

Complaintline: +86-574-87908003

E-mail: cts@cts-lab.com

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EN60529			
clause	Requirement-Test	Result	Verdict
	D(wirediameter1,0mmforIP4X,IP5X,IP6Xwithtest force 1N±10%)		N

13	Testsforprotectionagainstsolidforeignobjectsindicatedbythefirst characteristic numeral		—
13.1	TestmeansmustcomplywithTableVII.	Seeattachedtable	P
13.2	Allappliances	IP6X	P
	theprobeshallnotpenetrateintheappliancewhenthe probe is applied with the force:		P
	A(spherediameter50mmwith50NforIP1X)		N
	B(spherediameter12,5mmwith30NforIP2X)		N
	C(stickdiameter2,5mmwith3NforIP3X)		N
	D(wirediameter1,0mmwith1NforIP4X)		N
13.3	Acceptanceconditionsforthefirstcharacteristicnumerals 1,2,3,4		N
	Theprobedoesnotpassthroughanyopening		N
13.4	Dusttestforfirstnumerals5and6	IP6X	P
	-Dusttestconditionforenclosurescategory1:Withsup-atmosphere		P
	-Category2:withnormalatmosphereatdustchamber		N
13.5.2	theamountofintrudeddustdoesnotimpairsafety(forIP 5X)		N
13.6.2	nodustdidintrude(forIP6X)	IP6X	P

14	Testsforprotectionagainstwaterindicatedbythesecondcharacteristic numeral		—
14.1	Testmeans,seetheTable VIII	Seeattachedtable	P
14.2	TestconditionsmustcomplywithTableVIII		P
14.2.1	Proofwiththedropmachine(IPX1)	IPX5	N
	testfor10minwithawater-volume-streamof1mm/min on a rotating table (1 round/min distance between applianceandtheaxisofthetableis100mm)		N
	-theingressofwatershallnotimpairsafetyorinterfere with the correct operation of equipment		N
	-thewatershallnotcausetrackingcurrents		N
	-thewatershallnotreachlivepartsorwindingwhichare not build for use in wet conditions		N
	-thewatershallnotreachtheendofwires		N

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Date:23August2023

EN60529			
clause	Requirement-Test	Result	Verdict
	-ifthecaseisprovidedwithdrainageholeswatershall not stay in the case and flow without impairing safety		N
	-theequipmentpassthedielectricstrengthtest		N
14.2.2	Proofwiththedropmachine(IPX2)	IPX5	N
	testfor10minwithawater-volume-streamof3mm/min on a rotating table (1 round/min distance between applianceandtheaxisofthetableis100mm)		N
	testfor2,5minat4fixedpositionswith15°slope		N
	-theingressofwatershallnotimpairsafetyorinterfere with the correct operation of equipment		N
	-thewatershallnotcausetrackingcurrents		N
	-thewatershallnotreachlivepartsorwindingwhichare not build for use in wet conditions		N
	-thewatershallnotreachtheendofwires		N
	-theequipmentpassthedielectricstrengthtest		N
	-ifthecaseisprovidedwithdrainageholeswatershall not stay in the case and flow without impairing safety		N
14.2.3	Proofwiththesprinklingmachine(IPX3)	IPX5	N
	Testing not less than 5min from - 60 to 60 degree jet angleat0,07l/minperholewithadistanceof200mma showerat10l/min,andthewaterpressurerangeof 50kPa to 150kPa.		N
	The test duration is 1min/m ²		N
	-theingressofwatershallnotimpairsafetyorinterfere with the correct operation of equipment		N
	-thewatershallnotcausetrackingcurrents		N
	-thewatershallnotreachlivepartsorwindingwhichare not build for use in wet conditions		N
	-thewatershallnotreachtheendofwires		N
	-ifthecaseisprovidedwithdrainageholeswatershall not stay in the case and flow without impairing safety		N
	-theequipmentpassthedielectricstrengthtest		N
14.2.4	Proofwiththesprinklingmachine(IPX4)	IPX5	N
	Testing not less than 5min from - 180 to 180 degree jet angleat0,07l/minperholewithadistanceof200mma shower at 10 l / min, and the water pressure range of 50kPato 150kPa.		N
	The test duration is 10min		N
	-theingressofwatershallnotimpairsafetyorinterfere with the correct operation of equipment		N
	-thewatershallnotcausetrackingcurrents		N

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EN60529			
clause	Requirement-Test	Result	Verdict
	-thewatershallnotreachlivepartsorwindingwhichare not build for use in wet conditions		N
	-thewatershallnotreachtheendofwires		N
	-ifthecaseisprovidedwithdrainageholeswatershall not stay in the case and flow without impairing safety		N
	-theequipmentpassthedielectricstrengthtest		N
14.2.5	Proofwithajetnozzle (IPX5)	IPX5	N
	testwithanozzlewithadiameterof6,3mmat12,5l/min in a distance of 2,5m to 3m for 1 min/m ² per surface		N
	Minimumtestduration:3min		N
	-theingressofwatershallnotimpairsafetyorinterfere with the correct operation of equipment		N
	-thewatershallnotcausetrackingcurrents		N
	-thewatershallnotreachlivepartsorwindingwhichare not build for use in wet conditions		N
	-thewatershallnotreachtheendofwires		N
	-ifthecaseisprovidedwithdrainageholeswatershall not stay in the case and flow without impairing safety		N
	-theequipmentpassthedielectricstrengthtest		N
14.2.6	Proofwithajetnozzle (IPX6)	IPX5	N
	testwithanozzlewithadiameterof12,5mmat100l/min in a distance of 2,5m to 3m for 1 min/m ² per surface		N
	Minimumtestduration:3min		N
	-theingressofwatershallnotimpairsafetyorinterfere with the correct operation of equipment		N
	-thewatershallnotcausetrackingcurrents		N
	-thewatershallnotreachlivepartsorwindingwhichare not build for use in wet conditions		N
	-thewatershallnotreachtheendofwires		N
	-ifthecaseisprovidedwithdrainageholeswatershall not stay in the case and flow without impairing safety		N
	-theequipmentpassthedielectricstrengthtest		N
14.2.7	Temporaryimmersing(IPX7)	IPX5	N
	testwithcaseswithaheightupto850mmintestdeep of 1000mm for 30min		N
	testwithcaseswithaheightover850mmat150mm water over the top for 30min		N
	-theingressofwatershallnotimpairsafetyorinterfere with the correct operation of equipment		N
	-thewatershallnotcausetrackingcurrents		N
	-thewatershallnotreachlivepartsorwindingwhichare not build for use in wet conditions		N

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EN60529			
clause	Requirement-Test	Result	Verdict
	-thewatershallnotreachtheendofwires		N
	-ifthecaseisprovidedwithdrainageholeswatershall not stay in the case and flow without impairing safety		N
	-theequipmentpassthedilectricstrengthtest		N
14.2.8	Temporaryimmersing(IPX8)	IPX5	P
	Unless there is a relevant product standard, the test conditions are subject to agreement between manufactureranduser,buttheyshallbemoresevere than those prescribed in 14.2.7 and they shall take account of the condition that the enclose will be continuouslyimmersedinactualuse.	Immersion 1.5_min thewaterfor40min.	P
14.2.9	Testforsecondcharacteristicnumeral9byhigh pressure and temperature water jetting (IPX9)	IPX5	N
	The test is made by spraying the enclosure with a stream of water from a standard test nozzle as shown in Figures 7, 8 and 9. The set-up for measuring the impact force of the water jet is given in Figure 10. The distribution force shall be verified at upper and lower limits of distance tolerance range (see Figure 11).		N
15	Testsforprotectionagainstaccesshazardousparts indicated by the additional letter		N



Annexasstatedinthestandards

EN60529			
Clause	Requirement-Test	Result-Remark	Verdict
ANNEXEA	ExamplesofIPcodingfortheverification ofprotectionlow-voltageequipment against access to hazardous parts		P
	IPcodesofexamplesinannexeA		P
ANNEXEB	Summaryofresponsibilitiesofrelevant technical committees		N



Table

TableV–testconditionsforddegreesofprotectionindicatedbythefirstcharacteristicnumeral

First characteristic numeral	Testforprotectionagainst	
	Accesstohazardousparts	Solidforeignobjects
0	Notestrequired	Notestrequired
1	Thesphereof50mmΦshallnotfullypenetrateandadequateclearanceshallbekept	
2	Thejointedtestfinger may penetrate up to its 80mmlength,butadequateclearanceshallbe kept	Thesphereof12.5mmΦshallnot fully penetrate
3	Thetestrodof2.5mmΦshallnotpenetrateandadequateclearanceshallbekept	
4	Thetestwireof1.0mmΦshallnotpenetrateandadequateclearanceshallbekept	
5	Thetestwireof1.0mmΦshallnotpenetrate and adequate clearance shall be kept	Dust–protectedasspecifiedintable II
6	Thetest wire of1.0mmΦshallnotpenetrateand adequate clearance shall be kept	Dust–tightasspecifiedintableII

TableVII-testmeansforthetestsforprotectionagainstsolidforeignobjects

First numeral	characteristic	Testmeans(objectprobesanddust chamber)	Testforce	Testconditions see
0		Notestrequired	--	--
1		Rigidspewithouthandleorguard $50^{+0,05}_0$ mm diameter.	50N±10%	13.2
2		Rigidspewithouthandleorguard $12,5^{+0,2}_0$ mmdiameter.	30N±10%	13.2
3		Rigidsteelrod $2,5^{+0,05}_0$ mmdiameter with edges free from burrs	3N±10%	13.2
4		Rigidsteelwire1.0mmdiameterwith edges free from burrs	1N±10%	13.2
5		Dust chamber figure 2, with or without underpressure	--	13.4+13.5
6		Dust chamber figure 2, withunderpressure	--	13.4+13.6



TableVIII-testmeansandmaintestconditionsforthetestsforprotectionagainstwater

Second characteristic numeral	Testmeans	Waterflow rate	Duration of test	Test conditions, see
0	Notestrequired	--	--	--
1	Dripboxfigure3enclosure on turntable	$1^{+0,5}_0$ mm/min	10min	14.2.1
2	Dripboxfigure3enclosure in 4 fixed positions of 15° tilt	$3^{+0,5}_0$ mm/min	2.5minfor eachposition of tilt	14.2.2
3	Oscillatingtubefigure4 spray±60°fromvertical, distance max.200mm Or spray nozzle figure 5 spray±60°fromvertical	0.07 l/min±5% per hole, multiplied by number of holes 10 l/min ±5%	10min 1min/m ² Atleast5min	14.2.3a) 14.2.3b)
4	Asfor numeral3spray±180° from vertical	Asfor numeral3		14.2.4
5	Waterjet hose nozzle figure 6 nozzle 6.3 mm diameter distance 2.5m to 3m	12.5l/min±5%	1min/m ² Atleast3min	14.2.5
6	Water jet hose nozzle figure 6 nozzle12.5mmdiameter distance2.5mto 3m	100l/min±5%	1min/m ² Atleast3min	14.2.6
7	Immersion tank water-level on enclosure: 0.15m above top 1m above bottom	--	30min	14.2.7
8	Immersion tank water-level :by agreement	Immersion _____ ater _____ 1,5_minthw	40Min	14.2.8
9	Fanjet nozzle Figure 7 Test of small enclosure on turntable Figure 12 Turntable speed(5±1)r/min Spray at 0°, 30°, 60°, 90° Or Test of large enclosure as per intended use Spray from all practical directions Distance(175±25)mm	(15±1)l/min	30sper position 1min/m ² Atleast3min	14.2.9a) 14.2.9b)



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Attachments

- Photodocument
- BOM
- CDF(criticaldataform)
- Copiesofcertificatesofcertifiedcomponents
- Instructionmanual
- Circuitdiagram
- Explosionblock
- Otherifnecessary

----- endofreport -----

Type Designation: Metallic Flexible Conduit (OPCS/LSRM) (OPCS/DPJ)
Report Number : C3190816006-L



Figure1(externalview-front)



Figure 2(externalview-Front)