

INDUSTRIAL RESEARCH INSTITUTE

Report Number: 5223/12/575517/2021

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IEC 60502-1:2004 Power cables with extruded insulation and their accessories for rated voltages from 1 kV up to 30 kV

Part 1: Cables for rated voltages of 1 kV and 3 kV

Clause	Requirement - Test	Result - Remark	Verdict
6.2	Insulation thickness	Nominal thickness: 1,0	P
	(mm)	Result: 1,0	1
	Correlation between cable	Nominal diameter of round armour wires: 1,6	
12.5	5 diameters and armour dimensions (mm)	Result: 1,6	P
13.3	Oversheath thickness (mm)	1,8	P
15.2	Electrical resistance	Max: 3,08	
	of conductors (Ω/Km) (acc. to IEC 60228)	Result: 2,61	P
	Maximum diameter of	Max: 3,3	P
	conductors (mm) (acc. to Annex C - IEC 60228)	Result: 3,0	P
16.8	Overall diameter (mm)	Result: 22,92	P

In house	Weight (Kg/m)	1,217
In house	Armoured nominal diameter (mm)	19,03
In house	Insulation diameter (mm)	5,1

1- Test case verdict: P = Pass, F = Fail, N/A = Case not apply to the test object.



Product category

Industrial Research Institute

accessories for rated voltages from 1 kV up to 30 kV

Report Number: 5223/11C3/571919/2021

Test Report

Customer name	Mediterranean cables company S.A.L.		
Customer address	Zahrani - Saida - Lebanon		
Date of item's reception	12.07.2021		
Date or period of tests	From 13.07.2021 To 16.07.2021		
Date of report issue	19.07.2021		
Product description	Cables		
Manufacturer, brand name or trademark	MEDCABLES	Country of origin: Lebanon	
Reference, model	NYRGBY 3*50 mm ² + 25 mm ²		
	Power cables with extruded insulation and their		

Testing according to the requirements of:	IEC 60502-1:2004	
Canaval comments	Conform	
General comments:	Reference: Client's letter dated on 05/07/2021	

Tested by (+ Signature)	Elie Dawaliby
Verified by (+ Signature)	Eng. Bilal Hussein Electrical laboratory head
Approved by (+ Signature)	Dr. Imad Hage Chehade Technology & Development Director Technology & Development

⁻ Unless otherwise specified, the sampling was done by the client

- The tests carried out form a part of the related standard



Notes: * Results relate only to the item tested.

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IEC 60502-1:2004 Power cables with extruded insulation and their accessories for rated voltages from 1 kV up to 30 kV Part 1: Cables for rated voltages of 1 kV and 3 kV

Clause	Requirement - Test	Result - Remark		Verdict
6.2	Insulation thickness	Nominal thickness: 1,4		
	(mm)	Result: 1,4	Result: 1,2	P
	Correlation between cable		round armour wires: ,0	100
12.5	diameters and armour dimensions (mm)	Resu	lt: 2,0	P
13.3	Oversheath thickness (mm)	2,2		P
15.0	Electrical resistance of conductors (Ω/Km) (acc. to IEC 60228)	Max: 0,387	Max: 0,727 (neutral)	P
15.2		Result: 0,367	Result: 0,688	
- conductors (n	Maximum diameter of	Max: 9,1	Max: 6,6 (neutral)	P
	(acc. to Annex C - IEC 60228)	Result: 8	Result: 6	r
16.8	Overall diameter (mm)	Result: 36,7		P

In house	Weight (Kg/m)	3,518		
In house	Armoured nominal diameter (mm)		32,1	
In house	Insulation diameter (mm)	10,8	(neutal)	8,8

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Report Number: 5223/11A3/571919/2021

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Test Report

Customer name	Mediterranean cables company S.A.L.	
Customer address	Zahrani - Saida - Lebanon	
Date of item's reception	12.07.2021	
Date or period of tests	From 13 07 2021 To 16 07 2021	

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Date or period of tests	From 13.07.2021 To 16.07.2021
Date of report issue	19.07.2021
Product description	Cables

Product description	Cables	
Manufacturer, brand name or trademark	MEDCABLES	Country of origin: Lebanon
Reference, model	NYRGBY 3*10 mm ²	
Product category	Power cables with extruded insulation and their accessories for rated voltages from 1 kV up to 30 kV	

Testing according to the requirements of:	IEC 60502-1:2004	
General comments:	Conform	
General comments.	Reference: Client's letter dated on 05/07/2021	

Tested by (+ Signature)	Elie Dawaliby	A.
Verified by (+ Signature)	Eng. Bilal Hussein Electrical laboratory head	Anni B
Approved by (+ Signature)	Dr. Imad Hage Chehade Technology & Development Director	(IRI) Technology & Development

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IEC 60502-1:2004 Power cables with extruded insulation and their accessories for rated voltages from 1 kV up to 30 kV Part 1: Cables for rated voltages of 1 kV and 3 kV

Clause	Requirement - Test	Result - Remark	Verdict1
6.2	Insulation thickness	Nominal thickness: 1,0	- P
0.2	(mm)	Result: 1,0	P
12.5	Correlation between cable	Nominal diameter of round armour wires: 1,25	¥.
diameters and armour dimensions (mm)		Result: 1,25	P
13.3	Oversheath thickness (mm)	1,8	P
15.2	Electrical resistance of conductors (Ω/Km)	Max: 1,83	P
	(acc. to IEC 60228)	Result: 1,73	
-	Maximum diameter of conductors (mm)	Max: 4,2	P
	(acc. to Annex C - IEC 60228)	Result: 4	22.0
16.8	Overall diameter (mm)	Result: 21,95	P

In house	Weight (Kg/m)	1,062
In house	Armoured nominal diameter (mm)	17,98
In house	Insulation diameter (mm)	6

1- Test case verdict: P = Pass, F = Fail, N/A = Case not apply to the test object.

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IHEAN PLACE CHIPHADE Ph.D.

Technology & Development

DEEAN Director



Report Number: 5223/11B3/571919/2021

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& Development

Test Report

ompany S.A.L.	
Zahrani - Saida - Lebanon	

Date of item's reception	12.07.2021
Date or period of tests	From 13.07.2021 To 16.07.2021
Date of report issue	19.07.2021

Product description	Cables	
Manufacturer, brand name or trademark	MEDCABLES	Country of origin: Lebanon
Reference, model	NYRGBY 4*25 mm ²	
Product category	Power cables with extruded insulation and their accessories for rated voltages from 1 kV up to 30 kV	

Testing according to the requirements of:	IEC 60502-1:2004	
General comments:	Conform	
General comments.	Reference: Client's letter dated on 05/07/2021	

Tested by (+ Signature)	Elie Dawaliby	As-
Verified by (+ Signature)	Eng. Bilal Hussein Electrical laboratory head	eban' D
Approved by (+ Signature)	Dr. Imad Hage Chehade Technology & Development Director	

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Notes: * Results relate only to the item tested.



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IEC 60502-1:2004 Power cables with extruded insulation and their accessories for rated voltages from 1 kV up to 30 kV Part 1: Cables for rated voltages of 1 kV and 3 kV

Clause	Requirement - Test	Result - Remark	Verdict
6.2	Insulation thickness	Nominal thickness: 1,2	P
0.2	(mm)	Result: 1,2	•
10.5	Correlation between cable	Nominal diameter of round armour wires: 1,6	
12.5	diameters and armour dimensions (mm)	Result: 1,7	P
13.3	Oversheath thickness (mm)	2,0	P
15.2	Electrical resistance	Max: 0,727	P
15.2	of conductors (Ω/Km) (acc. to IEC 60228)	Result: 0,691	•
	Maximum diameter of	Max: 6,6	P
-	conductors (mm) (acc. to Annex C - IEC 60228)	Result: 6	r
16.8	Overall diameter (mm)	Result: 30,69	P

		A STATE OF THE STA
In house	Weight (Kg/m)	2,315
In house	Armoured nominal diameter (mm)	26,06
In house	Insulation diameter (mm)	8,3

1- Test case verdict: P = Pass, F = Fail, N/A = Case not apply to the test object.

University Campus



Report Number: 5223/12/575517/2021

Selim KFOUR ministrative & F. Director

Test Report

Customer name	Mediterranean cables company S.A.L.	
Customer address	Zahrani - Saida - Lebanon	

Date of item's reception	01.09.2021	
Date or period of tests	From 01.09.2021 To 03.09.2021	
Date of report issue	06.09.2021	

Product description	Cables		
Manufacturer, brand name or trademark	MEDCABLES	Country of origin: Lebanon	
Reference, model	NYRGBY 5*6 mm ²		
Product category	Power cables with extruded insulation and their accessories for rated voltages from 1 kV up to 30 kV		

Testing according to the requirements of:	IEC 60502-1:2004
General comments:	Conform
	Reference: Client's letter dated on 30/08/2021

Tested by (+ Signature)	Elie Dawaliby	
Verified by (+ Signature)	Eng. Bilal Hussein Electrical laboratory head	
Approved by (+ Signature)	Selim Kfoury Administrative & Financial Director	

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