



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


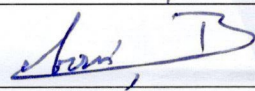
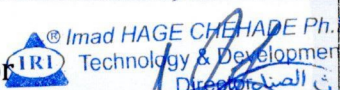
In house	Weight (Kg/m)	1,217
In house	Armoured nominal diameter (mm)	19,03
In house	Insulation diameter (mm)	5,1

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





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	
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 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 	

- 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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Technology & Development
Director





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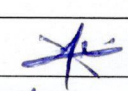
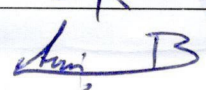
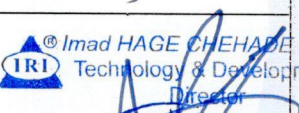
Clause	Requirement - Test	Result - Remark		Verdict ¹
6.2	Insulation thickness (mm)	Nominal thickness: 1,4	Nominal thickness (neutral): 1,2	P
		Result: 1,4	Result: 1,2	
12.5	Correlation between cable diameters and armour dimensions (mm)	Nominal diameter of round armour wires: 2,0		P
		Result: 2,0		
13.3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





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*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 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 	

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

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



LEBANON AG SHEHADE Ph.D.
Technology & Development
RESEARCH Director





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 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 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	

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

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

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.





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	 Selim KFOURY Administrative & Financial Director

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