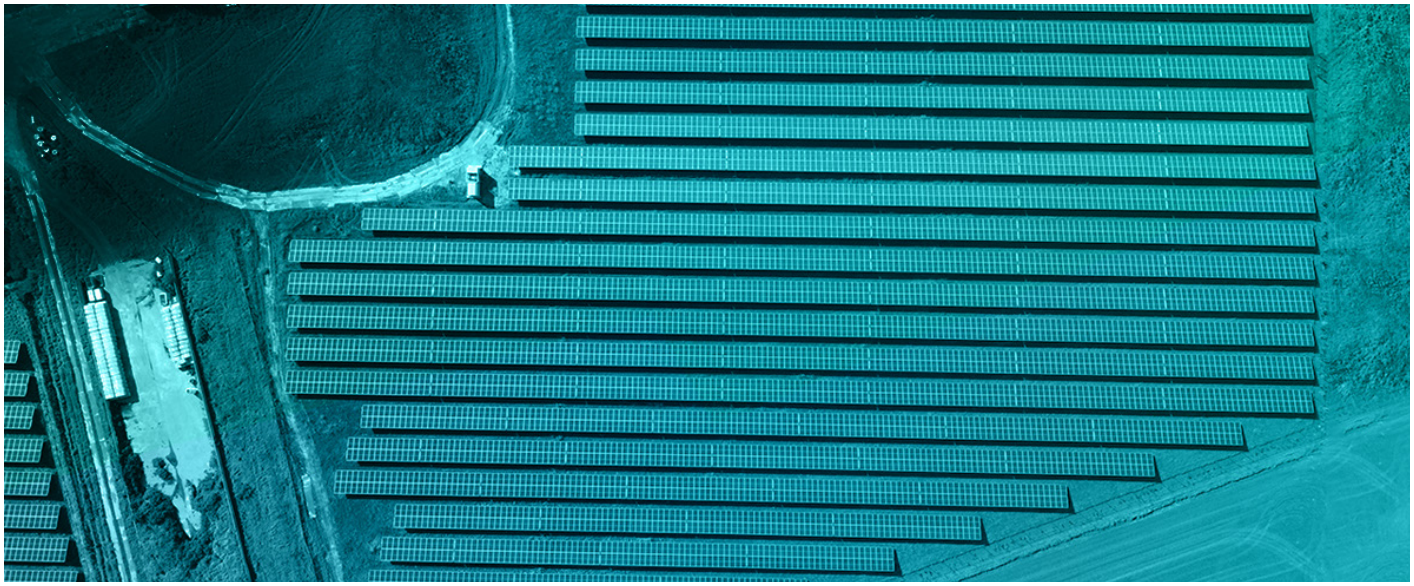
WATTSON POWER

Wattson Power B.V.
Wassenaarseweg 20
2596 CH Den Haag

T: +31 6 298 78 836
E: sales@wattsonpower.nl
W: www.wattsonpower.nl



TECHNICAL INFORMATION
AC CABLES

Contact:
Senior Sales Representative
Phone: +31 6 298 78 836
sales@wattsonpower.nl
https://wattsonpower.nl/

IBAN	KvK	BTW	BIC
NL51 INGB 000 743 7547	661 71 458	NL 8564 26325 B01	INGBNL2A

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AC KABELS

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INTRODUCTION

Wattson Power B.V. is a leading player in the market of AC installations. The company was founded in 2016 and has since built a strong reputation as a supplier of high-quality and reliable AC installations. The company has developed a comprehensive range of solutions that meet different needs and requirements of its customers.

The company's product range includes several essential components of AC installations and transformer substations, including PV roof shelters, AC installation cabinets, custom-made transformer substations, cable holders, and cables for solar system installations. Each type of AC installation and/or transformer substation has unique features and specifications that are tailored to the customer's needs.

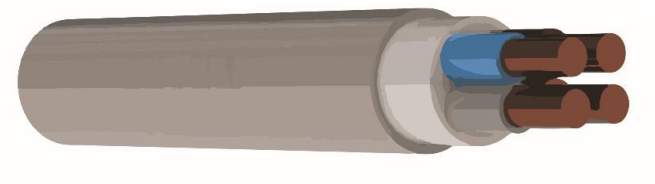
We offer advice and support to customers in the design, installation and maintenance of AC installations and transformer substations. It uses cutting-edge technologies and innovative solutions to make energy more efficient and effective.

Wattson Power has an experienced and dedicated team of professionals who are committed to providing high-quality services to clients.

Thank you for being part of a powerful transformation.

YMvK CABLE 0,6/1(1,2)kV

1. Solid Copper Conductor
2. XLPE Insulation
3. PVC Filler
4. PVC Outer Sheat



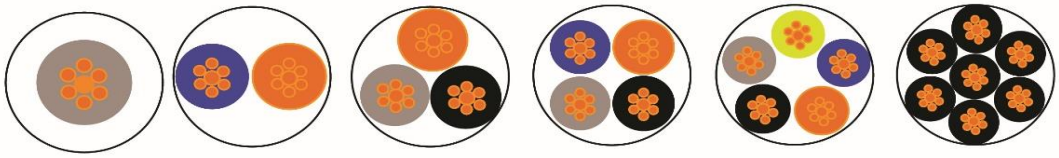
Application: This cable is suitable for dry humid areas, in all type of factories, warehouses and depots where there is fire and explosion threat. Used in fixed installations laying in conduit on and under plaster.

Basic Data:

Applied Standards	TS HD 604 S1-4D / DEKRA K42D-1-1:2017 / DEKRA K42D-1-4-D:2017
Voltage Rate	0,6/1 kV
Conductor Type	Solid Copper, Class 1 , TS EN 60229
Type of Insulation Material	XLPE
Type of Sheath Material	PVC
Max. Continuous Conductor Temp.	90°C
Max. Short Circuit Temp.	250 °C
Test Voltage (AC)	4 kV
Min. Laying Temperature	-5 °C
Other Properties	Flame Retardant acc. To IEC 60332-1-2
Fire Performance Class (CPR)	Dca-s2

Technical Features						
Rated Cross-	Overall Diameter	Current Carrying		Conductor	Net Weight	Delivery
mm²	mm	Air(A)	Ground(A)	ohm/km	kg/km	m
3G2,5 re	11,40	32	40	7,41	215	1.000
5G2,5 re	13,10	32	40	7,42	295	1.000

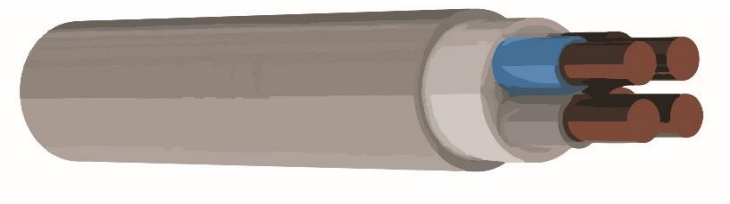
"Unless otherwise specified, core colours will be shown as below."

Cores	1	2	3	4	5	>5
Core colours						

Certifications

YMvK ss CABLE

1. Flexible Copper Conductor
2. XLPE Insulation
3. PVC Filler
4. PVC Outer Sheat



Application: This cable is suitable for dry humid areas, in all type of factories, warehouses and depots where there is fire and explosion threat. Used in fixed installations laying in conduit on and under plaster.

Basic Data:

Applied Standards	TS HD 604 S1-4D / DEKRA K42D-1-1:2017 / DEKRA K42D-1-4-D:2017
Voltage Rate	0,6/1 kV
Conductor Type	Flexible Copper, Class 5, (Conductor Resistance acc. to Class 2)
Type of Insulation Material	XLPE
Type of Sheath Material	PVC
Max. Continuous Conductor Temp.	90°C
Max. Short Circuit Temp.	250 °C
Test Voltage (AC)	3,5 kV
Min. Laying Temperature	-5 °C
Other Properties	Flame Retardant acc. To IEC 60332-1-2
Fire Performance Class (CPR)	Dca-s2

Technical Features						
Rated Cross-	Overall Diameter	Current Carrying		Conductor	Net Weight	Delivery
mm²	mm	Air(A)	Ground(A)	ohm/km	kg/km	m
4G35 k	28,40	160	173	0,524	2.040	1.000
5G35 k	32,10	160	173	0,524	2.585	1.000
4G70 k	40,60	247	252	0,268	4.12	1.000
5G70 k	45,60	247	252	0,268	5.185	1.000

Certifications

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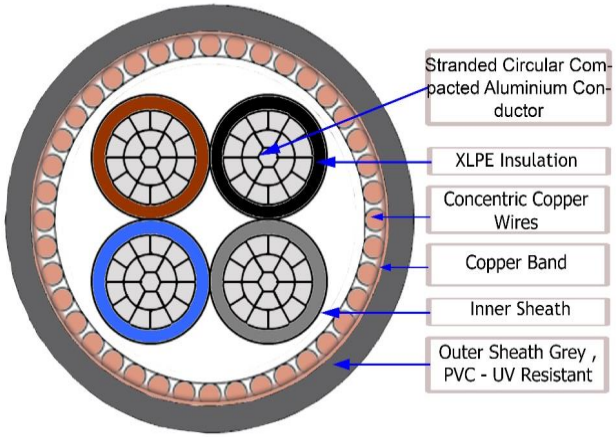
WATTSON POWER BV 23-257

TECHNICAL DATA SHEET

Item	Description	Unit	Required	Guaranteed values by manufacturer
	0.6/1kV Underground Power Cable ALU / XLPE / CWS + CT / PVC 4 x 120 / 35 mm²			
1	**GENERAL DATA**			
1.1	Type of Cable			NA2XCY 4 x 120 / 35
1.2	Wholesaler			Wattson Power
1.3	Applied standard			IEC 60502-1
2	**DATA**			
2.1	Maximum AC/DC resistance of conductor			
	@ 20°C	Ω/km	0,253	0,253
	@ 90°C	Ω/km		0,324
2.2	Current carrying capacity (buried / air)	A		269 / 278
2.3	Max. operating temperature	°C	90	90
2.4	Max. Short - circuit temperature	°C	250	250
2.5	Short - circuit capacity , 1 sec , max	kA		11,52
2.6	Test voltage	kV	3,5	3,5
2.7	Rated voltage U_0 / U (U_m)	kV	0,6 / 1	0,6 / 1
2.8	Overall diameter of finished cable , approximately	mm		47,7
2.9	Weight of finished cable , approximately	kg/km		3.100
2.10	Maximum length per drum	m		Upon Request
2.11	Minimum bending radius of cable , Ø= Outer Diameter			15 x Ø
3	**CONDUCTORS**			
3.1	Material of conductor		Aluminum	Aluminum
3.2	Conductor shape			Stranded circular compacted
3.3	Conductor class			Class 2
3.4	Conductor standard			EN 60228
3.5	Cross-sectional area of conductor	mm^2	120	120
3.6	Number of wires	no.	19	19
3.7	Diameter of conductor , approximately	mm		12,8
4	**INSULATION**			
4.1	Material of insulation		XLPE	XLPE
4.2	Thickness of insulation	mm		1,20
4.3	Identification of core			Brown , Black , Gray , Blue
4.4	No. of conductors (cores) in cable			4
5	**INNER SHEATH**			
5.1	Material of inner sheath			filling compound
5.2	Diameter over laid-up cores , approximately	mm		37,05
5.3	Thickness of inner sheath	mm		1,40
6	**CONCENTRIC CONDUCTOR**			
6.1	Material of concentric conductor			Copper wires
6.2	Cross-sectional area of concentric copper conductor	mm²		35
6.3	Material of tape	mm		Copper helix tape
7	**FIRE CLASS**		Eca	Eca
8	**SHEATH**			
8.1	Material of Outer Sheath		PVC	PVC
8.2	Color of outer sheath			Gray
8.3	Features of sheath			UV Resistant
8.4	Thickness of outer sheath	mm		2,50
8.5	On the outer sheath printing in axial arrangement:			
	WATTSON POWER NA2XCY 4x120/35 RM 0.6/1 kV IEC 60502-1 CE Eca 00180422 WP-CAC-NA2XCY-E-4x120-SA Pr No: .... Month/Year xxxx m			

NA2XCY 4x120 RM AL / 35 CU (0,6/1 kV)



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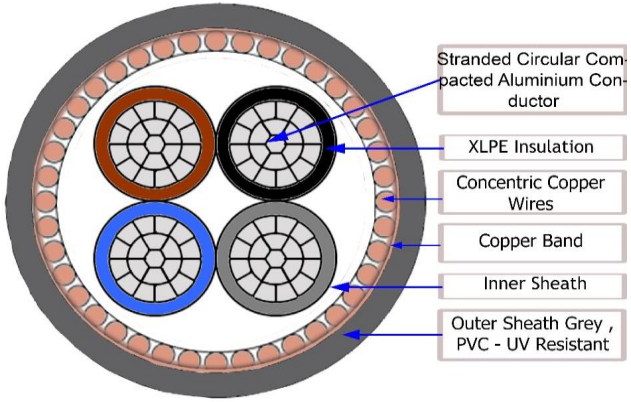
WATTSON POWER BV 23-257

TECHNICAL DATA SHEET

Item	Description	Unit	Required	Guaranteed values by manufacturer
	0.6/1kV Underground Power Cable ALU / XLPE / CWS + CT / PVC 4 x 150 / 50 mm²			
1	**GENERAL DATA**			
1.1	Type of Cable			NA2XCY 4 x 150 / 50
1.2	Wholesaler			Wattson Power
1.3	Applied standard			IEC 60502-1
2	**DATA**			
2.1	Maximum AC/DC resistance of conductor			
	@ 20°C	Ω/km	0,206	0,206
	@ 90°C	Ω/km		0,264
2.2	Current carrying capacity (buried / air)	A		302 / 316
2.3	Max. operating temperature	°C	90	90
2.4	Max. Short - circuit temperature	°C	250	250
2.5	Short - circuit capacity , 1 sec , max	kA		14,4
2.6	Test voltage	kV	3,5	3,5
2.7	Rated voltage U_0 / U (U_m)	kV	0,6 / 1	0,6 / 1
2.8	Overall diameter of finished cable , approximately	mm		51,5
2.9	Weight of finished cable , approximately	kg/km		3.750
2.10	Maximum length per drum	m		Upon Request
2.11	Minimum bending radius of cable , Ø= Outer Diameter			15 x Ø
3	**CONDUCTORS**			
3.1	Material of conductor		Aluminum	Aluminum
3.2	Conductor shape			Stranded circular compacted
3.3	Conductor class			Class 2
3.4	Conductor standard			EN 60228
3.5	Cross-sectional area of conductor	mm^2	150	150
3.6	Number of wires	no.	19	19
3.7	Diameter of conductor , approximately	mm		14,2
4	**INSULATION**			
4.1	Material of insulation		XLPE	XLPE
4.2	Thickness of insulation	mm		1,40
4.3	Identification of core			Brown , Black , Gray , Blue
4.4	No. of conductors (cores) in cable			4
5	**INNER SHEATH**			
5.1	Material of inner sheath			filling compound
5.2	Diameter over laid-up cores , approximately	mm		41,10
5.3	Thickness of inner sheath	mm		1,40
6	**CONCENTRIC CONDUCTOR**			
6.1	Material of concentric conductor			Copper wires
6.2	Cross-sectional area of concentric copper conductor	mm²		50
6.3	Material of tape	mm		Copper helix tape
7	**FIRE CLASS**		Eca	Eca
8	**SHEATH**			
8.1	Material of Outer Sheath		PVC	PVC
8.2	Color of outer sheath			Gray
8.3	Features of sheath			UV Resistant
8.4	Thickness of outer sheath	mm		2,60
8.5	On the outer sheath printing in axial arrangement:			

WATTSON POWER NA2XCY 4x150/50 RM 0.6/1 kV IEC 60502-1 CE Eca 00180422 WP-CAC-NA2XCY-E-4x150-SA Pr No: .... Month/Year xxxx m

NA2XCY 4x150 RM AL / 50 CU (0,6/1 kV)



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