

Standard: IEC 60502-2 HD 603-5D S1

Suitable for cabling in buildings, in open air, in ground, in cable trays and ducts. Annealed compacted aluminum conductors insulated with UV-resistant XLPE. Covered with common sheath of PVC with high mechanical properties.

Characteristic	Unit	Value
Standard		IEC 60502-2
	3	HD 603-5D S1
№ of conductors × conductor cross sectional area Conductor material	pcs.×mm²	4×25 Aluminium
Conductor type		RM
Number and diameter of conductor strands	Nº/mm	7×2,19
Conductor diameter / external dimension	mm	5,84
Protection from water penetration		No
Type of protection from water penetration		N/A
Insulation material		XLPE
Nominal thickness of insulation	mm	0,9
Insulation color scheme		Yeollow-green, brown, balck, grey (HD 308)
Insulation UV resistance	2	Yes
№ of additional core × conductor cross sectional area Additional core conductor material	pcs.×mm²	1×2,5 Copper
Additional core conductor type		RE
Number and diameter of add. core conductor strands	Nº/mm	1×1,76
Additional core conductor diameter / external dimension	mm	1,76
Protection from water penetration		No
Type of protection from water penetration		N/A
Insulation material		XLPE
Nominal thickness of insulation	mm	0,7
Insulation color scheme	-	black
Insulation UV resistance		yes Four insulated conductors are laid-up in
Assembly of cores		right-hand direction around the additional core
Material of separating layer		PET-tape
Nominal thickness of separating layer	mm	0,07
Diameter of copper shield wires	mm	N/A
Number of copper shield wires		N/A
Thickness of copper shield tapes	mm	N/A
Number of copper shield tapes		N/A
Effective cross sectional area of copper screen	mm2	N/A
Material of bedding Thickness of bedding	mm	N/A N/A
Type of armour	mm	N/A N/A
Thickness of steel tapes	mm	N/A
Number of steel tapes		N/A
Diameter of aluminum wires	mm	N/A
Number of aluminum wires		N/A
Diameter of steel wires	mm	N/A
Number of steel wires		N/A
Outer sheath material Nominal outer sheath thickness		PVC
Outer sheath UV resistance	mm	1,8 Yes
Overall diameter of cable	mm	22,2
Min. permesible bending radius	mm	266
Lowest laying temperature	°C	-15
Rated voltage	kV	0,6/1
Highest continuous operating voltage	kV	1,2
Impulse withstand voltage	kV	N/A
Conductor DC resistance per km at 20oC	Ohm/km	1,2
Additional core conductor DC resistance per km at 20oC	Ohm/km	7,41
Cable appointance	mH/km	0,27
Cable capacitance Maximum permissible duration of short circuit	μF/km s	N/A 5
Maximum permissible continuous conductor temperature	°C	90
- '	°C	
Maximum permissible conductor temperature during the short circuit Delivery length per drum	m	250 2900
Weight of conductor per km	Kg	262
Weight of colleger km	kg	541
Gross weight of full cable drum	kg	2332
Diameter of cable drum	mm	2064
Width of cable drum	mm	1250
Manufacturers name Country of Origin		Energocomplekt
	i	Belarus



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Characteristic	Unit	Value
Standard		IEC 60502-2
		HD 603-5D S1 4×35
№ of conductors × conductor cross sectional area Conductor material	pcs.×mm²	4×35 Aluminium
Conductor type		RM
Number and diameter of conductor strands	Nº/mm	7×2,55
Conductor diameter / external dimension	mm	6,95
Protection from water penetration		No No
Type of protection from water penetration Insulation material		N/A XLPE
Nominal thickness of insulation	mm	0.9
Insulation color scheme		Yeollow-green, brown, balck, grey (HD 308)
Insulation UV resistance		Yes
№ of additional core × conductor cross sectional area	pcs.×mm²	1×2,5
Additional core conductor material		Copper RE
Additional core conductor type Number and diameter of add. core conductor strands	Nº/mm	1×1,76
Additional core conductor diameter / external dimension	mm	1,76
Protection from water penetration		No No
Type of protection from water penetration		N/A
Insulation material		XLPE
Nominal thickness of insulation	mm	0,7
Insulation color scheme		black
Insulation UV resistance		yes Four insulated conductors are laid-up in
Assembly of cores		right-hand direction around the additional
Material of separating layer		PET-tape
Nominal thickness of separating layer	mm	0,07
Diameter of copper shield wires	mm	N/A
Number of copper shield wires		N/A
Thickness of copper shield tapes	mm	N/A
Number of copper shield tapes Effective cross sectional area of copper screen	mm2	N/A N/A
Material of bedding	111112	N/A
Thickness of bedding	mm	N/A
Type of armour		N/A
Thickness of steel tapes	mm	N/A
Number of steel tapes		N/A
Diameter of aluminum wires	mm	N/A
Number of aluminum wires Diameter of steel wires	mm	N/A N/A
Number of steel wires		N/A
Outer sheath material		PVC
Nominal outer sheath thickness	mm	1,8
Outer sheath UV resistance		Yes
Overall diameter of cable	mm	24,9
Min. permesible bending radius Lowest laying temperature	°C	298
Rated voltage	kV	-15 0,6/1
Highest continuous operating voltage	kV	1,2
Impulse withstand voltage	kV	N/A
Conductor DC resistance per km at 20oC	Ohm/km	0,868
Additional core conductor DC resistance per km at 20oC	Ohm/km	7,41
Cable inductance	mH/km	0,26
Cable capacitance	μF/km	N/A
Maximum permissible duration of short circuit	°C	5
Maximum permissible continuous conductor temperature	°C	90
Maximum permissible conductor temperature during the short circuit	+	250
Delivery length per drum Weight of conductor per km	m Kg	2300 362
Weight of conductor per km	kg	681
Gross weight of full cable drum	kg	2329
Diameter of cable drum	mm	2064
Width of cable drum	mm	1250
Manufacturers name		Energocomplekt
Country of Origin		Belarus



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Standard Ref conductors a conductor cross sectional area pc. s-mm² 4.416 Conductor type Ref Conductor system of the conductor strands (amenic of conductor strands) Ref Conductor diameter / external dimension mm 1.441 Conductor diameter / external dimension mm 4.41 Profection from water penetration No No Type of protection from water penetration mm 6.77 Non Tissulation conductor strands (amenic of the conductor strands) Ref Conductor diameter / external dimension mm 4.41 Non No Type of protection from water penetration mm 6.77 Non Tissulation conductor strands (amenic of the conductor strands) Ref Conductor (a	Characteristic		
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Additional core conductor type RE	Nº of additional core × conductor cross sectional area	pcs.×mm²	1×2,5
Number and diameter of add. core conductor strands Additional core conductor diameter of aeternal dimension Protection from water penetration No Type of protection from water penetration No No Type of protection from water penetration No	Additional core conductor material	·	Copper
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Outer sheath UV resistance Yes Overall diameter of cable mm 18,6 Min. permesible bending radius mm 223 Lowest laying temperature °C -15 Rated voltage kV 0,6/1 Highest continuous operating voltage kV 1,2 Impulse withstand voltage kV N/A Conductor DC resistance per km at 200C Ohm/km 1,91 Additional core conductor DC resistance per km at 200C Ohm/km 7,41 Cable inductance mH/km 0,27 Cable capacitance μF/km N/A Maximum permissible duration of short circuit s 5 Maximum permissible continuous conductor temperature °C 90 Maximum permissible conductor temperature during the short circuit °C 250 Delivery length per drum m 4000 Weight of conductor per km Kg 166 Weight of conductor per km kg 381 Gross weight of full cable drum kg 2287 Diameter of cable drum mm 2064 Width of cable drum mm			·
Overall diameter of cable mm 18,6 Min. permesible bending radius mm 223 Lowest laying temperature °C -15 Rated voltage kV 0,6/1 Highest continuous operating voltage kV 1,2 Impulse withstand voltage kV N/A Conductor DC resistance per km at 200C Ohm/km 1,91 Additional core conductor DC resistance per km at 200C Ohm/km 7,41 Cable inductance mH/km 0,27 Cable capacitance μF/km N/A Maximum permissible duration of short circuit s 5 Maximum permissible continuous conductor temperature °C 90 Maximum permissible conductor temperature during the short circuit °C 250 Delivery length per drum m 4000 Weight of conductor per km Kg 166 Weight of conductor per km kg 381 Gross weight of full cable drum kg 2287 Diameter of cable drum mm 2064 Width of cable drum mm 1250 Manufacturers name Ene		mm	
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