

Low Voltage Cables	Units	Item1	Item2	Item3
Product identification and Features				
Cable code		20303570	20303569	20303987
Cable type		LXS	LXS	LXS
Standard		DMA-209	DMA-209	NP-3528
Standard		Based on NP-3528	Based on NP-3528	
Standard				
Nominal voltage		0,6/1 kV	0,6/1 kV	0,6/1 kV
N° of cores x C.S.A.		2x16 mm ²	4x16 mm ²	4x25 mm ²
Construction and Dimensions				
Conductor material		Aluminium	Aluminium	Aluminium
Shape		Circular compacted	Circular compacted	Circular compacted
Class / Standard		2 / IEC 60228	2 / IEC 60228	2 / IEC 60228
Nominal diameter	mm	4,60	4,60	5,85
Mica glass tape		NO	NO	NO
Insulation material		XLPE	XLPE	XLPE
Nominal radial thickness	mm	1,2	1,2	1,4
Diameter over insulation	mm	7,0	7,0	8,7
Conductor material (reduced core)		N/A	N/A	N/A
Shape				
Class / Standard				
Nominal diameter	mm			
Mica glass tape				
Insulation material (reduced core)		N/A	N/A	N/A
Nominal radial thickness	mm			
Diameter over insulation	mm			
Screen bedding material		N/A	N/A	N/A
Approximate radial thickness	mm			
Metallic screen		N/A	N/A	N/A
N° of wires x Diameter	N x mm			
Nominal tape thickness / Overlap	mm / %			
C.S.A.	mm ²			
Metallic sheath bedding material		N/A	N/A	N/A
Nominal radial thickness	mm			
Metallic sheath material		N/A	N/A	N/A
Nominal radial thickness	mm			
Armour bedding material		N/A	N/A	N/A
Nominal radial thickness / Minimum at any point	mm			
Armour material		N/A	N/A	N/A
Nominal under armour diameter	mm			
N° of wires (approx.) x Diameter / Metallic uncounter tape	N x mm			
Nominal tapes thickness	mm			
Outer sheath material		N/A	N/A	N/A
Nominal radial thickness / Minimum at any point	mm			
Nominal overall diameter	mm	14,2	17,2	21,2
Nominal total weight	kgs/km	125	250	390
Minimum bending radius (after installation)	mm	63	63	78
Electrical Data				
Maximum conductor DC resistance, at 20 °C	Ohm/km	1,91	1,91	1,2
Star reactance per phase, at 50 Hz	Ohm/km	0,092	0,099	0,097
Maximum permanent current rating (*)	A	85	75	100
Maximum conductor temperature in service / in short-circuit	°C	90 / 250	90 / 250	90 / 250
Maximum adiabatic short-circuit current rating (0.1/0.5/1.0 s)	kA	4,78 / 2,14 / 1,51	4,78 / 2,14 / 1,51	7,48 / 3,34 / 2,36

(*) In air, at 40 °C

N/A = Not Applicable

Nominal values subject to the usual manufacturer tolerances

Date : 24/02/2020

Low Voltage Cables	Units	Item4	Item5	Item6
Product identification and Features				
Cable code		20303795	20303796	20303571
Cable type		LXS	LXS	LXS
Standard		NP-3528	NP-3528	DMA-209
Standard				Based on NP-3528
Nominal voltage		0,6/1 kV	0,6/1 kV	0,6/1 kV
N° of cores x C.S.A.		4x35 mm ²	4x50 mm ²	4x25+16 mm ²
Construction and Dimensions				
Conductor material		Aluminium	Aluminium	Aluminium
Shape		Circular compacted	Circular compacted	Circular compacted
Class / Standard		2 / IEC 60228	2 / IEC 60228	2 / IEC 60228
Nominal diameter	mm	6,70	7,90	5,85
Mica glass tape		NO	NO	NO
Insulation material		XLPE	XLPE	XLPE
Nominal radial thickness	mm	1,6	1,6	1,4
Diameter over insulation	mm	9,9	11,1	8,7
Conductor material (reduced core)		N/A	N/A	Aluminium
Shape				Circular compacted
Class / Standard				2 / IEC 60228
Nominal diameter	mm			4,60
Mica glass tape				NO
Insulation material (reduced core)		N/A	N/A	XLPE
Nominal radial thickness	mm			1,2
Diameter over insulation	mm			7,0
Screen bedding material		N/A	N/A	N/A
Approximate radial thickness	mm			
Metallic screen		N/A	N/A	N/A
N° of wires x Diameter	N x mm			
Nominal tape thickness / Overlap	mm / %			
C.S.A.	mm ²			
Metallic sheath bedding material		N/A	N/A	N/A
Nominal radial thickness	mm			
Metallic sheath material		N/A	N/A	N/A
Nominal radial thickness	mm			
Armour bedding material		N/A	N/A	N/A
Nominal radial thickness / Minimum at any point	mm			
Armour material		N/A	N/A	N/A
Nominal under armour diameter	mm			
N° of wires (approx.) x Diameter / Metallic uncounter tape	N x mm			
Nominal tapes thickness	mm			
Outer sheath material		N/A	N/A	N/A
Nominal radial thickness / Minimum at any point	mm			
Nominal overall diameter	mm	24,3	27,2	22,8
Nominal total weight	kgs/km	530	680	450
Minimum bending radius (after installation)	mm	90	100	78
Electrical Data				
Maximum conductor DC resistance, at 20 °C	Ohm/km	0,868	0,641	1,2
Star reactance per phase, at 50 Hz	Ohm/km	0,097	0,094	--
Maximum permanent current rating (*)	A	120	150	100
Maximum conductor temperature in service / in short-circuit	°C	90 / 250	90 / 250	90 / 250
Maximum adiabatic short-circuit current rating (0.1/0.5/1.0 s)	kA	10,5 / 4,68 / 3,31	15 / 6,69 / 4,73	7,48 / 3,34 / 2,36

(*) In air, at 40 °C

N/A = Not Applicable

Nominal values subject to the usual manufacturer tolerances

Date : 24/02/2020

Low Voltage Cables				
	Units	Item7	Item8	Item9
Product identification and Features				
Cable code		20303797	20303572	20303627
Cable type		LXS	LXS	LXS
Standard		DMA-209	DMA-209	DMA-209
Standard		Based on NP-3528	Based on NP-3528	Based on NP-3528
Standard				
Nominal voltage		0,6/1 kV	0,6/1 kV	0,6/1 kV
N° of cores x C.S.A.		4x50+16 mm ²	4x70+16 mm ²	4x95+16 mm ²
Construction and Dimensions				
Conductor material		Aluminium	Aluminium	Aluminium
Shape		Circular compacted	Circular compacted	Circular compacted
Class / Standard		2 / IEC 60228	2 / IEC 60228	2 / IEC 60228
Nominal diameter	mm	7,90	9,35	11,10
Mica glass tape		NO	NO	NO
Insulation material		XLPE	XLPE	XLPE
Nominal radial thickness	mm	1,6	1,8	1,8
Diameter over insulation	mm	11,1	13,0	14,7
Conductor material (reduced core)		Aluminium	Aluminium	Aluminium
Shape		Circular compacted	Circular compacted	Circular compacted
Class / Standard		2 / IEC 60228	2 / IEC 60228	2 / IEC 60228
Nominal diameter	mm	4,60	4,60	4,60
Mica glass tape		NO	NO	NO
Insulation material (reduced core)		XLPE	XLPE	XLPE
Nominal radial thickness	mm	1,2	1,2	1,2
Diameter over insulation	mm	7,0	7,0	7,0
Screen bedding material		N/A	N/A	N/A
Approximate radial thickness	mm			
Metallic screen		N/A	N/A	N/A
N° of wires x Diameter	N x mm			
Nominal tape thickness / Overlap	mm / %			
C.S.A.	mm ²			
Metallic sheath bedding material		N/A	N/A	N/A
Nominal radial thickness	mm			
Metallic sheath material		N/A	N/A	N/A
Nominal radial thickness	mm			
Armour bedding material		N/A	N/A	N/A
Nominal radial thickness / Minimum at any point	mm			
Armour material		N/A	N/A	N/A
Nominal under armour diameter	mm			
N° of wires (approx.) x Diameter / Metallic uncounter tape	N x mm			
Nominal tapes thickness	mm			
Outer sheath material		N/A	N/A	N/A
Nominal radial thickness / Minimum at any point	mm			
Nominal overall diameter	mm	28,3	32,4	36,2
Nominal total weight	kgs/km	740	1020	1335
Minimum bending radius (after installation)	mm	100	120	135
Electrical Data				
Maximum conductor DC resistance, at 20 °C	Ohm/km	0,641	0,443	0,32
Star reactance per phase, at 50 Hz	Ohm/km	--	--	--
Maximum permanent current rating (*)	A	150	190	230
Maximum conductor temperature in service / in short-circuit	°C	90 / 250	90 / 250	90 / 250
Maximum adiabatic short-circuit current rating (0.1/0.5/1.0 s)	kA	15 / 6,69 / 4,73	20,9 / 9,36 / 6,62	28,4 / 12,7 / 8,98

(*) In air, at 40 °C

N/A = Not Applicable

Nominal values subject to the usual manufacturer tolerances

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