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TECHNICAL SPECIFICATION FOR ELECTRIC CABLES FOR PHOTOVOLTAIC SYSTEMS FOLLOWING EN 50618

	Technical Description	Units	Guaranteed Characteristics
1.	**General Data**		
	a)Manufacturer		HASÇELİK KABLO
	b)Type of cable		H1Z2Z2-K
	c)Aplied Standard		EN 50618
	d)Number of cores and Cross-sectional area	mm^2	6
	e)Rated Voltage (A.C. SYSTEM)	kV	1,0/1,0
	f)SAP Product Number		-
2.	**Construction Data / Layers of Cable:**		
	-Electrolytic tin coated copper conductor		
	-Cross linked HFFR Insulation		
	-Cross linked HFFR Oversheath		
3.	**Constructional and dimensional details**	**Units**	**Guaranteed Characteristics**
3.1	**Conductor (One Phase)**		
	a)Material of Conductor		Electrolytic tin coated copper conductor-Class 5
	b)Nominal section area of conductor	mm^2	6
	c)Conductor Shape		Flexible
	d)The largest diameter of the each wires	mm	0,31
	e)Max. Conductor Diameter	mm	3,9
3.2	**Insulation**		
	a)Type of insulation		Cross linked HFFR Insulation
	b)Nominal thickness of insulation	mm	0,7
	c)Colour of insulation		Natural
3.3	**Oversheath**		
	a)Type of oversheath		Cross linked HFFR Oversheath
	b)Nominal thickness of oversheath	mm	0,8
3.4	**Complete Cable**		
	a)Overall Diameter of Cable (upper limit)-informative value	mm	7,4
	b)Cable Unit Weight (approx.)	kg/km	78
4	**Electrical Technical Data Sheet**	**Units**	**Guaranteed Characteristics**
	a)Max. DC resistance of phase at 20 C°	Ω/km	3,39
	b)Maximum conductor temperature (Normal operation)	C°	120*
	c)Maximum conductor temperature (Short-circuit 5 seconds maximum duration)	C°	250
	d)Maximum Short-Circuit Current for 1 second	kA	0,858
	e)Current Carrying Capacity		
	1)Single cable free in air (Ambient Temperature 60°C)	(A)	70
	2)Single cable on a surface	(A)	67
	3)Two loaded cables touching, on a surface	(A)	57
	f)Min. temperature for installation and handling	C°	-25
	g)Max. storage temperature	C°	40
	h) Test Voltage (AC)	kV	6,5
	* The expected period of use a max. conductor temperature of 120 C° and at a max. ambient temperature of 90 C° is limited to 20.000 hours		
5	**Cable Marking**		
	a)On the outer sheath of cable, a marking is applied as follows;		
	"Manufacturer, Cable Type, Number of cores and Cross-sectional area, Standard, Rated Voltage, Year of manufacturing-Meter marking" (by inkjet)		
	b)Continuity of marks;		
	Distance between the beginning of one mark and the beginning of the next; 50 cm		
6	**Drum Labeling**		
	The following information to be attached to the outside of both flanges of each drum;		
	a)Name of Manufacturer		
	b) Year of Manufacture		
	c) Drum Number		
	d) Cable Type		
	e) Length		
	f) Net Weight		
	g) Gross Weight		

Prepared by	Approval
Quality Control Specialist	Quality Control Manager

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