



CABLEWORLD
SUPPLIERS OF ELECTRICAL CABLES & ACCESSORIES

GUARANTEED TECHNICAL PARTICULARS FOR SOLAR CABLE

**ATC Conductor Single Core UV resistant, silane crosslinkable, halogen free, flame-retardant insulated and sheathed Cable
Manufactured to TÜV 2 PfG 1169/08.2007 and EN 50618:2015.**

SR.NO	PARAMETER	UNIT	SPECIFIED					
			2.50	4.0	6.0	10	16	25
	SQ.MM							
1	CONDUCTOR AT DRAWING							
	a) Type of Conductor		Annealed Tinned Copper (Elongation of wire 25 to 30 % at drawing)					
	b) Class of Conductor		Flexible Bunch Conductor as per EN 60228					
	c) No of Wires		50	56	84	140	126	196
	d) Conductor Resistance @ 20°C (Max)	Ω/KM	8.210	5.09	3.39	1.95	1.24	0.795
	e) Max. Conductor Temp For -Continuous	°c	90					
f) Max. Conductor Temp For -Short Circuit to a period of 5 sec	°c	200						
2	BUNCHER / STRANDING							
	a) Lay direction		Left Hand					
	b) Lay Length (Max)	mm	51	51	64	76	89	102
c) Conductor diameter	mm	1.89	2.39	2.93	3.87	4.92	6.14	
3	INSULATION							
	a) Material		UV resistant, silane crosslinkable, halogen free, flame-retardant compound + Catalyst					
	b) Insulation Colour		Black					
	c) Master Batch		PE (EVA base)					
	d) Master Batch Doze		1% maximum					
	e) Overall Approx diameter of cable (± 0.05)	mm	3.19	3.69	4.23	5.17	6.22	7.44
	f) Thickness (Nom)	mm	0.65	0.65	0.65	0.65	0.65	0.65
g) Thickness minimum at a point	mm	0.55	0.55	0.55	0.55	0.55	0.55	
4	SHEATHING							
	a) Material		UV resistant, silane crosslinkable, halogen free, flame-retardant compound + Catalyst					
	b) Sheath Colour		Black					
	c) Master Batch		PE (EVA base)					
	d) Master Batch Doze		1% maximum					
	e) Overall Approx diameter of cable (± 0.05)	mm	4.49	4.99	5.53	6.47	7.52	8.74
	f) Thickness (Nom)	mm	0.65	0.65	0.65	0.65	0.65	0.65
g) Thickness minimum at a point	mm	0.55	0.55	0.55	0.55	0.55	0.55	
5	PRINT MESSAGE ON THE CABLE		SQ.MM AC U ₀ /U 0.6 / 1 KV UV SOLAR CABLE					
	a) Printing Distance (Max)	mm	450 mm (Max)					
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