

**Comments / Suggestions on Specification IS 17293 : 2020**

Date: 06.08.2022

Sl. No.	Cl. No. as per IS 17293 : 2020	SPECIFIED VALUE (IS 17293 : 2020)	SIECHEM COMMENTS/ SUGGESTIONS	REMARKS
1	Cl. 6.2	The Sheath shall not adhere to the core. A separator, consisting of a film or tape, or talcum powder may be placed under the sheath.	Co-extrusion of Insulation and Sheath is also permissible.	If we applied powder, Insulation and Sheath will get delaminated thus resulting in premature failure
2	Cl. 5.1 & 6.1	Insulation & Sheath Material shall be cross-linked compound	Solar cable manufacturers must have in house EBXL facilities	Only Electron Beam Cross Linking (EBXL) process is proven most reliable
3.	Table 1	Min. Insulation Resistance at 20°C and at 90°C	Insulation Resistance shall be decreasing on increasing Size, whereas in IS 17293: 2020 for few sizes, it increases with increase in size.	Table of Comparison attached with yellow highlighted wherever changes required.

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Min. Insulation Resistance at 20°C and at 90°C

S.No.	Cable Size (Sq.mm)	As per IS 12793 : 2020		As per EN 50618 : 2014		Remarks
		Min. Insulation Resistance at 20°C	Min. Insulation Resistance at 90°C	Min. Insulation Resistance at 20°C	Min. Insulation Resistance at 90°C	
1	1Cx1.5 Sq.mm	1050	1.050	860	0.860	
2	1Cx2.5 Sq.mm	862	0.862	690	0.690	
3	1Cx4 Sq.mm	709	0.709	580	0.580	
4	1Cx6 Sq.mm	610	0.610	500	0.500	
5	1Cx10 Sq.mm	489	0.489	420	0.420	
6	1Cx16 Sq.mm	393	0.393	340	0.340	
7	1Cx25 Sq.mm	395	0.395	340	0.340	I.R of 25 sq.mm should be lesser than 16 sq.mm
8	1Cx35 Sq.mm	335	0.335	290	0.290	
9	1Cx50 Sq.mm	314	0.314	270	0.270	
10	1Cx70 Sq.mm	291	0.291	250	0.250	
11	1Cx95 Sq.mm	258	0.258	220	0.220	
12	1Cx120 Sq.mm	249	0.249	210	0.210	
13	1Cx150 Sq.mm	260	0.260	210	0.210	I.R of 150 sq.mm should be lesser than 120 sq.mm
14	1Cx185 Sq.mm	268	0.268	200	0.200	I.R of 185 sq.mm should be lesser than 150 sq.mm
15	1Cx240 Sq.mm	249	0.249	200	0.200	I.R of 240 sq.mm should be lesser than 120 sq.mm
16	1Cx300 Sq.mm	237	0.237	-	-	
17	1Cx400 Sq.mm	230	0.230	-	-	

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