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Cir. No. 50/PVC/CLAR/02 March 07, 2012

To members of Cable division, Utilities, SEBs, listed purchasing organizations

Sub: Revision in Table P3 and P6 providing Round Wire 'W' Steel Factors for various types of Cables.

We have issued Cir. No. 119/DIV/CAB/05 dated 1st July, 2010 providing Round Wire 'W' Steel Factors for various types of Cables.

It is observed that IEEMA factors for round wire steel (FeF) for 2 core and 3 core of 2.5 sq. mm. cross sectional area for Copper conductor PVC power cables (table P3) & Copper conductor PVC Control cables (table P6) are indicated different.

After discussion with IEEMA Cable division members during the meeting held on 21st February 2012, it has been decided to have identical/same factors for both these types of Cables. Accordingly revised and updated tables are enclosed herewith. We request members to use these tables henceforth. Revised table references are as under

P3 – PVC insulated 1.1 kV Power Cables with Copper/Aluminium Conductor
P6 – PVC insulated Control Cables with Copper Conductor

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Encl: Revised tables P3 and P6

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TABLE P3 (Revised_07 March 2012)

VARIATION FACTOR FOR ROUND WIRE 'W' STEEL (FeF)
PVC INSULATED 1.1 KV POWER CABLES WITH COPPER/ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area (in sq. mm)	2 Core	3 Core	3 .5 Core	4 Core
1.5	0.247	0.259		0.288
2.5	0.273	0.289		0.329
4	0.305	0.335		0.363
6	0.348	0.363		0.407
10	0.392	0.407		0.533
16	0.439	0.523	0.014	0.573
25	0.526	0.625	0.664	0.685
35	0.591	0.685	0.729	0.761
50	0.661	0.790	0.864	1.108
70	0.745	1.122	1.200	1.256
95	1.085	1.286	1.376	1.443
120	1.147	1.386	1.479	1.562
150	1.267	1.526	1.684	2.173
185	1.403	2.090	2.315	2.421
240	1.994	2.397	2.641	2.722
300	2.180	2.642	3.670	3.842
400	2.987	3.728	4.126	4.292
500	3.517	4.226	5.958	6.301
630	4.774	6.018	6.737	7.141

TABLE P6 (Revised_07 March 2012)

VARIATION FACTOR FOR ROUND WIRE 'W' STEEL (FeF)

PVC INSULATED CONTROL CABLES WITH COPPER CONDUCTOR

No. of Cores	Core size 1.5 sq mm	Core size 2.5 sq mm
2	0.243	0.273
3	0.257	0.289
4	0.277	0.314
5	0.303	0.342
6	0.329	0.379
7	0.329	0.379
8	0.341	0.456
9	0.383	0.508
10	0.408	0.535
12	0.510	0.572
14	0.546	0.625
16	0.581	0.660
19	0.608	0.696
24	0.714	0.819
25	0.679	0.798
27	0.732	0.837
28	0.696	0.815
30	0.758	0.881
33	0.747	0.883
37	0.820	1.217
44	0.926	1.355
48	1.122	1.308
50	1.122	1.308
52	1.149	1.361
56	1.202	1.388
61	1.299	1.520