

SPECIFICATION

For

FD-CVV-S

600V Copper Conductor PVC Insulated PVC Sheathed

Flame Retardant Shielded Control Cable

(600V, Cu/PVC/CTS/FR-PVC)

BY



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MANAGER, Cable Design Section

APP. _____

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CUSTOMER

Rev.	Date	Description
0	25/11/2021	Issued specification
1	25/5/2022	- Correct the value in Table 1 - Cancel cable code "0010" - Add size 2 x 0.5, 3 x 0.5 and 4 x 0.5 mm ²
2	4/7/2022	Add flame retardant
3	6/2/2025	Update Table 1

Customer Document	Rev.

Remark:

This document is based on the Customer Document for the structure and properties of electric wire and cable only. If there are different points, will be shown in deviation table.

1. Scope

This specification covers 600V copper conductor polyvinyl chloride (PVC) insulated polyvinyl chloride (PVC) sheathed flame retardant shielded control cable.

The cables shall be in according to applicable specification of THAI YAZAKI Standard based on JIS C 3401 and TIS 11 Part 5-2553.

- Flame retardant test requirements per IEC 60332-1.
- Flame propagation test requirements per IEC 60332-3-24; Category C.

2. Conductor

The conductor shall be flexible stranded uncoated annealed copper conductor in accordance with IEC 60228 : 2004, Class 5.

For size 0.5 to 4 mm² : The direction of lay shall be left-hand (S) lay.

For size 6 mm² : The direction of lay shall be right-hand (Z) lay.

3. Insulation

The insulation shall be polyvinyl chloride (PVC/D) compound meet the requirements of TIS 11 Part 5-2553.

The average insulation thickness shall be based on Table 3 of TIS 11-2531 and not less than the value in Table 1.

The minimum thickness shall not fall below the value in Table 1 by more than 10% plus 0.1 mm.

4. Cabling

The individual insulated cores shall be cabled together with suitable non-hygroscopic filler to give the completed cable a substantially circular cross section.

The direction of lay shall be left-hand (S) lay.

A suitable binder tapes shall be applied helically over the cabled core.

5. Core Identification

The cores shall be identified by colors or by number printed on the insulation, as follows :

2-cores : blue, brown

3-cores : brown, black, grey

4-cores : blue, brown, black, grey

For ≥ 5 -cores :

The cores shall be identified by the arabic numerals printed longitudinally and continuously on the surface of black insulation

6. Metallic Shield

The metallic shield shall be an annealed uncoated copper tape and applied helically with a lap over the binder tape.

The thickness of the tape shall be approximate 0.1 mm.

A suitable separator tape shall be applied helically over the metallic shield.

7. Sheath

The sheath shall be sunlight resistant and flame retardant polyvinyl chloride (PVC/ST5) compound meet the requirements of TIS 11 Part 5-2553.

The average thickness shall be not less than the value in Table 1.

The minimum thickness shall be not fall below the value in Table 1 by more than 15% plus 0.1 mm.

The color of the sheath shall be black.

8. Marking on Cable

The marking items shall be marked by printed at intervals not exceeding 1 meter with suitable means throughout the length of cable.

1. Manufacturer's name and/or trade mark "  YAZAKI..... : TYE"

2. Year of manufacture

3. Flame retardant "FD"

4. Rated circuit voltage "600V"

5. Type of conductor "CU "

6. Type of insulation and sheath "PVC/PVC "

7. Type of cable " SHIELD CONTROL CABLE "

8. Number of cores and size of conductor

9. The continuous reel length marking (in figure) shall be made on the sheath at every 1 meter

Except the number of cores and size of conductor as below :

Number of cores	Size (mm ²)
2	0.5
3	0.5
4	0.5

9. Test and Properties

The cable shall be meet the requirements in Test and Inspection and Table 1, when tested in accordance with JIS C 3401, TIS 11 Part 2-2553, TIS 11 Part 5-2553, IEC 60228 : 2004, IEC 60332-1 and IEC 60332-3-24; Category C.


Remark: Sunlight resistant test meet the requirement of TIS 293-2541.

10. Packing

The cable shall be placed on the non-returnable wooden reels.

The reel shall be covered with suitable covering to provide the cable with physically protection during transportation and during ordinary storage and handling operations.

Each reel shall be clearly marked as follows.

1. Designation "FD-CVV-S"
2. Number of cores and size of conductor
3. Cable length
4. Net and gross weight
5. Manufacturer's name and/or trade mark "  **YAZAKI** "
6. Rolling direction of reel

Test and Inspection

Routine Tests

1. Maximum conductor resistance, Ohm/km specified in Table 1
2. AC test voltage for 1 minutes, V2000

Sample Tests

3. Construction.....specified in Table 1

Type Tests

4. Minimum insulation resistance at 70 °C, MOhm-km.....specified in Table 1
5. Flame retardant tested according to IEC 60332-1 and IEC 60332-3-24; Category C

Remark

Reference standard

Test item 1 refer IEC 60228:2004, Class 5

Test item 2 refer JIS C 3401

Test item 4 refer TIS 11-2531

Test item 5 refer IEC 60332-1 and IEC 60332-3-24; Category C.

Definition concerning the tests

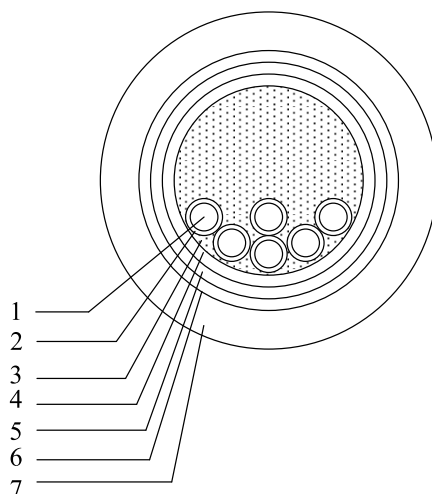
Routine tests: Tests made by the manufacturer on each manufactured length of cable to check that each length meets the specified requirements.

Sample tests: Tests made by the manufacturer on samples of completed cable or components taken from a completed cable, at a specified frequency, so as to verify that the finished product meets the specified requirements.

Type tests: Tests made before supplying, on a general commercial basis, a type of cable covered by this standard, in order to demonstrate satisfactory performance characteristics to meet the intended application.

Cable structure

Cross-sectional (Not scale)



No.	Structure	Material
1	Conductor	Flexible stranded annealed copper
2	Insulation	Polyvinyl chloride (PVC/D) compound
3	Filler	Non-hygroscopic
4	Binder tape	Spund bond tape or suitable tape
5	Metallic shield	Copper tape
6	Separator tape	Spund bond tape or suitable tape
7	Sheath	Flame retardant polyvinyl chloride (PVC/ST5) compound

Application: For supervisory electrical equipment, station control circuits, outdoor, suitable installation in the dry or wet cable trenches. Maximum conductor temperature of 70 °C for normal operation and 160 °C for short circuit conditions.

Table 1

No. of cores	Size (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
2	0.5	Flexible	0.95	0.6	1.2	9.0	39.0	0.0130	81	300
2	0.75	Flexible	1.15	0.6	1.2	9.5	26.0	0.0114	90	300
2	1	Flexible	1.30	0.6	1.2	9.5	19.5	0.0104	102	300
2	1.5	Flexible	1.55	0.6	1.2	10.0	13.3	0.0089	114	300
2	2.5	Flexible	2.00	0.7	1.2	11.5	7.98	0.0081	155	300
2	4	Flexible	2.60	0.8	1.2	13.0	4.95	0.0076	213	300
2	6	Flexible	3.40	0.8	1.4	15.0	3.30	0.0061	295	300
3	0.5	Flexible	0.95	0.6	1.2	9.0	39.0	0.0130	92	300
3	0.75	Flexible	1.15	0.6	1.2	9.5	26.0	0.0114	104	300
3	1	Flexible	1.30	0.6	1.2	10.0	19.5	0.0104	117	300
3	1.5	Flexible	1.55	0.6	1.2	10.5	13.3	0.0089	134	300
3	2.5	Flexible	2.00	0.7	1.2	11.5	7.98	0.0081	186	300
3	4	Flexible	2.60	0.8	1.4	14.0	4.95	0.0076	276	300
3	6	Flexible	3.40	0.8	1.4	15.5	3.30	0.0061	372	300
4	0.5	Flexible	0.95	0.6	1.2	10.0	39.0	0.0130	102	300
4	0.75	Flexible	1.15	0.6	1.2	10.5	26.0	0.0114	118	300
4	1	Flexible	1.30	0.6	1.2	10.5	19.5	0.0104	139	300
4	1.5	Flexible	1.55	0.6	1.2	11.0	13.3	0.0089	161	300
4	2.5	Flexible	2.00	0.7	1.2	12.5	7.98	0.0081	225	300
4	4	Flexible	2.60	0.8	1.4	15.0	4.95	0.0076	336	300
4	6	Flexible	3.40	0.8	1.4	17.0	3.30	0.0061	465	300

Table 1

No. of cores	Size (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
5	0.5	Flexible	0.95	0.6	1.2	10.5	39.0	0.0130	119	300
5	0.75	Flexible	1.15	0.6	1.2	11.0	26.0	0.0114	139	300
5	1	Flexible	1.30	0.6	1.2	11.5	19.5	0.0104	159	300
5	1.5	Flexible	1.55	0.6	1.2	12.0	13.3	0.0089	191	300
5	2.5	Flexible	2.00	0.7	1.4	14.0	7.98	0.0081	282	300
5	4	Flexible	2.60	0.8	1.4	16.5	4.95	0.0076	405	300
5	6	Flexible	3.40	0.8	1.4	18.5	3.30	0.0061	560	300
6	0.5	Flexible	0.95	0.6	1.2	11.5	39.0	0.0130	136	300
6	0.75	Flexible	1.15	0.6	1.2	12.0	26.0	0.0114	160	300
6	1	Flexible	1.30	0.6	1.2	12.0	19.5	0.0104	184	300
6	1.5	Flexible	1.55	0.6	1.2	13.0	13.3	0.0089	216	300
6	2.5	Flexible	2.00	0.7	1.4	15.0	7.98	0.0081	328	300
6	4	Flexible	2.60	0.8	1.4	18.0	4.95	0.0076	476	300
6	6	Flexible	3.40	0.8	1.4	20.5	3.30	0.0061	662	300
7	0.5	Flexible	0.95	0.6	1.2	11.5	39.0	0.0130	143	300
7	0.75	Flexible	1.15	0.6	1.2	12.0	26.0	0.0114	169	300
7	1	Flexible	1.30	0.6	1.2	12.0	19.5	0.0104	196	300
7	1.5	Flexible	1.55	0.6	1.2	13.0	13.3	0.0089	231	300
7	2.5	Flexible	2.00	0.7	1.4	15.0	7.98	0.0081	353	300
7	4	Flexible	2.60	0.8	1.4	18.0	4.95	0.0076	516	300
7	6	Flexible	3.40	0.8	1.4	20.5	3.30	0.0061	722	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
8	0.5	Flexible	0.95	0.6	1.2	12.0	39.0	0.0130	162	300
8	0.75	Flexible	1.15	0.6	1.2	12.5	26.0	0.0114	193	300
8	1	Flexible	1.30	0.6	1.2	13.0	19.5	0.0104	225	300
8	1.5	Flexible	1.55	0.6	1.4	14.5	13.3	0.0089	278	300
8	2.5	Flexible	2.00	0.7	1.4	16.5	7.98	0.0081	408	300
8	4	Flexible	2.60	0.8	1.4	19.5	4.95	0.0076	597	300
8	6	Flexible	3.40	0.8	1.4	22.0	3.30	0.0061	829	300
9	0.5	Flexible	0.95	0.6	1.2	12.5	39.0	0.0130	176	300
9	0.75	Flexible	1.15	0.6	1.2	13.5	26.0	0.0114	209	300
9	1	Flexible	1.30	0.6	1.4	14.0	19.5	0.0104	257	300
9	1.5	Flexible	1.55	0.6	1.4	15.5	13.3	0.0089	303	300
9	2.5	Flexible	2.00	0.7	1.4	17.5	7.98	0.0081	457	300
9	4	Flexible	2.60	0.8	1.4	20.5	4.95	0.0076	666	300
9	6	Flexible	3.40	0.8	1.4	23.5	3.30	0.0061	952	300
10	0.5	Flexible	0.95	0.6	1.2	13.5	39.0	0.0130	193	300
10	0.75	Flexible	1.15	0.6	1.4	14.5	26.0	0.0114	251	300
10	1	Flexible	1.30	0.6	1.4	15.0	19.5	0.0104	290	300
10	1.5	Flexible	1.55	0.6	1.4	16.5	13.3	0.0089	342	300
10	2.5	Flexible	2.00	0.7	1.4	18.5	7.98	0.0081	503	300
10	4	Flexible	2.60	0.8	1.4	22.0	4.95	0.0076	736	300
10	6	Flexible	3.40	0.8	1.8	26.5	3.30	0.0061	1108	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
11	0.5	Flexible	0.95	0.6	1.2	13.5	39.0	0.0130	202	300
11	0.75	Flexible	1.15	0.6	1.4	14.5	26.0	0.0114	255	300
11	1	Flexible	1.30	0.6	1.4	15.0	19.5	0.0104	297	300
11	1.5	Flexible	1.55	0.6	1.4	16.5	13.3	0.0089	354	300
11	2.5	Flexible	2.00	0.7	1.4	18.5	7.98	0.0081	528	300
11	4	Flexible	2.60	0.8	1.4	22.0	4.95	0.0076	771	300
11	6	Flexible	3.40	0.8	1.8	26.5	3.30	0.0061	1161	300
12	0.5	Flexible	0.95	0.6	1.4	14.5	39.0	0.0130	229	300
12	0.75	Flexible	1.15	0.6	1.4	15.0	26.0	0.0114	272	300
12	1	Flexible	1.30	0.6	1.4	15.5	19.5	0.0104	326	300
12	1.5	Flexible	1.55	0.6	1.4	17.0	13.3	0.0089	385	300
12	2.5	Flexible	2.00	0.7	1.4	19.5	7.98	0.0081	571	300
12	4	Flexible	2.60	0.8	1.4	23.0	4.95	0.0076	859	300
12	6	Flexible	3.40	0.8	1.8	27.5	3.30	0.0061	1262	300
13	0.5	Flexible	0.95	0.6	1.4	15.0	39.0	0.0130	249	300
13	0.75	Flexible	1.15	0.6	1.4	16.0	26.0	0.0114	296	300
13	1	Flexible	1.30	0.6	1.4	16.5	19.5	0.0104	345	300
13	1.5	Flexible	1.55	0.6	1.4	17.5	13.3	0.0089	408	300
13	2.5	Flexible	2.00	0.7	1.4	20.0	7.98	0.0081	606	300
13	4	Flexible	2.60	0.8	1.4	24.0	4.95	0.0076	919	300
13	6	Flexible	3.40	0.8	1.8	28.5	3.30	0.0061	1350	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
14	0.5	Flexible	0.95	0.6	1.4	15.0	39.0	0.0130	249	300
14	0.75	Flexible	1.15	0.6	1.4	16.0	26.0	0.0114	299	300
14	1	Flexible	1.30	0.6	1.4	16.5	19.5	0.0104	351	300
14	1.5	Flexible	1.55	0.6	1.4	17.5	13.3	0.0089	418	300
14	2.5	Flexible	2.00	0.7	1.4	20.0	7.98	0.0081	629	300
14	4	Flexible	2.60	0.8	1.4	24.0	4.95	0.0076	943	300
14	6	Flexible	3.40	0.8	1.8	28.5	3.30	0.0061	1400	300
15	0.5	Flexible	0.95	0.6	1.4	15.5	39.0	0.0130	263	300
15	0.75	Flexible	1.15	0.6	1.4	16.5	26.0	0.0114	320	300
15	1	Flexible	1.30	0.6	1.4	17.0	19.5	0.0104	375	300
15	1.5	Flexible	1.55	0.6	1.4	18.0	13.3	0.0089	447	300
15	2.5	Flexible	2.00	0.7	1.4	21.0	7.98	0.0081	676	300
15	4	Flexible	2.60	0.8	1.8	26.0	4.95	0.0076	1066	300
15	6	Flexible	3.40	0.8	1.8	29.5	3.30	0.0061	1509	300
16	0.5	Flexible	0.95	0.6	1.4	15.5	39.0	0.0130	275	300
16	0.75	Flexible	1.15	0.6	1.4	16.5	26.0	0.0114	332	300
16	1	Flexible	1.30	0.6	1.4	17.0	19.5	0.0104	390	300
16	1.5	Flexible	1.55	0.6	1.4	18.5	13.3	0.0089	467	300
16	2.5	Flexible	2.00	0.7	1.4	21.0	7.98	0.0081	705	300
16	4	Flexible	2.60	0.8	1.8	26.5	4.95	0.0076	1114	300
16	6	Flexible	3.40	0.8	1.8	30.0	3.30	0.0061	1576	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
17	0.5	Flexible	0.95	0.6	1.4	16.5	39.0	0.0130	293	300
17	0.75	Flexible	1.15	0.6	1.4	17.5	26.0	0.0114	365	300
17	1	Flexible	1.30	0.6	1.4	18.0	19.5	0.0104	427	300
17	1.5	Flexible	1.55	0.6	1.4	19.5	13.3	0.0089	509	300
17	2.5	Flexible	2.00	0.7	1.4	22.5	7.98	0.0081	762	300
17	4	Flexible	2.60	0.8	1.8	27.5	4.95	0.0076	1208	300
17	6	Flexible	3.40	0.8	1.8	31.5	3.30	0.0061	1714	300
18	0.5	Flexible	0.95	0.6	1.4	16.5	39.0	0.0130	302	300
18	0.75	Flexible	1.15	0.6	1.4	17.5	26.0	0.0114	366	300
18	1	Flexible	1.30	0.6	1.4	18.0	19.5	0.0104	431	300
18	1.5	Flexible	1.55	0.6	1.4	19.5	13.3	0.0089	517	300
18	2.5	Flexible	2.00	0.7	1.4	22.5	7.98	0.0081	771	300
18	4	Flexible	2.60	0.8	1.8	27.5	4.95	0.0076	1225	300
18	6	Flexible	3.40	0.8	1.8	31.5	3.30	0.0061	1734	300
19	0.5	Flexible	0.95	0.6	1.4	16.5	39.0	0.0130	309	300
19	0.75	Flexible	1.15	0.6	1.4	17.5	26.0	0.0114	375	300
19	1	Flexible	1.30	0.6	1.4	18.0	19.5	0.0104	443	300
19	1.5	Flexible	1.55	0.6	1.4	19.5	13.3	0.0089	532	300
19	2.5	Flexible	2.00	0.7	1.4	22.5	7.98	0.0081	796	300
19	4	Flexible	2.60	0.8	1.8	27.5	4.95	0.0076	1264	300
19	6	Flexible	3.40	0.8	1.8	31.5	3.30	0.0061	1792	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
20	0.5	Flexible	0.95	0.6	1.4	16.5	39.0	0.0130	322	300
20	0.75	Flexible	1.15	0.6	1.4	17.5	26.0	0.0114	390	300
20	1	Flexible	1.30	0.6	1.4	18.0	19.5	0.0104	461	300
20	1.5	Flexible	1.55	0.6	1.4	20.0	13.3	0.0089	556	300
20	2.5	Flexible	2.00	0.7	1.4	23.0	7.98	0.0081	851	300
20	4	Flexible	2.60	0.8	1.8	28.5	4.95	0.0076	1336	300
20	6	Flexible	3.40	0.8	1.8	32.5	3.30	0.0061	1895	300
21	0.5	Flexible	0.95	0.6	1.4	17.0	39.0	0.0130	336	300
21	0.75	Flexible	1.15	0.6	1.4	18.0	26.0	0.0114	408	300
21	1	Flexible	1.30	0.6	1.4	18.5	19.5	0.0104	483	300
21	1.5	Flexible	1.55	0.6	1.4	20.0	13.3	0.0089	582	300
21	2.5	Flexible	2.00	0.7	1.4	23.5	7.98	0.0081	887	300
21	4	Flexible	2.60	0.8	1.8	29.0	4.95	0.0076	1391	300
21	6	Flexible	3.40	0.8	1.8	33.5	3.30	0.0061	1975	300
22	0.5	Flexible	0.95	0.6	1.4	18.0	39.0	0.0130	356	300
22	0.75	Flexible	1.15	0.6	1.4	19.0	26.0	0.0114	433	300
22	1	Flexible	1.30	0.6	1.4	19.5	19.5	0.0104	514	300
22	1.5	Flexible	1.55	0.6	1.4	21.0	13.3	0.0089	619	300
22	2.5	Flexible	2.00	0.7	1.8	25.5	7.98	0.0081	995	300
22	4	Flexible	2.60	0.8	1.8	30.5	4.95	0.0076	1474	300
22	6	Flexible	3.40	0.8	1.8	35.0	3.30	0.0061	2092	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
23	0.5	Flexible	0.95	0.6	1.4	18.0	39.0	0.0130	363	300
23	0.75	Flexible	1.15	0.6	1.4	19.0	26.0	0.0114	442	300
23	1	Flexible	1.30	0.6	1.4	19.5	19.5	0.0104	525	300
23	1.5	Flexible	1.55	0.6	1.4	21.0	13.3	0.0089	634	300
23	2.5	Flexible	2.00	0.7	1.8	25.5	7.98	0.0081	1022	300
23	4	Flexible	2.60	0.8	1.8	30.5	4.95	0.0076	1519	300
23	6	Flexible	3.40	0.8	1.8	35.0	3.30	0.0061	2161	300
24	0.5	Flexible	0.95	0.6	1.4	18.5	39.0	0.0130	382	300
24	0.75	Flexible	1.15	0.6	1.4	20.0	26.0	0.0114	464	300
24	1	Flexible	1.30	0.6	1.4	20.5	19.5	0.0104	549	300
24	1.5	Flexible	1.55	0.6	1.4	22.0	13.3	0.0089	664	300
24	2.5	Flexible	2.00	0.7	1.8	26.5	7.98	0.0081	1068	300
24	4	Flexible	2.60	0.8	1.8	32.0	4.95	0.0076	1586	300
24	6	Flexible	3.40	0.8	2.2	37.5	3.30	0.0061	2326	300
25	0.5	Flexible	0.95	0.6	1.4	18.5	39.0	0.0130	391	300
25	0.75	Flexible	1.15	0.6	1.4	20.0	26.0	0.0114	476	300
25	1	Flexible	1.30	0.6	1.4	20.5	19.5	0.0104	564	300
25	1.5	Flexible	1.55	0.6	1.4	22.0	13.3	0.0089	683	300
25	2.5	Flexible	2.00	0.7	1.8	26.5	7.98	0.0081	1098	300
25	4	Flexible	2.60	0.8	1.8	32.0	4.95	0.0076	1635	300
25	6	Flexible	3.40	0.8	2.2	37.5	3.30	0.0061	2399	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
26	0.5	Flexible	0.95	0.6	1.4	18.5	39.0	0.0130	400	300
26	0.75	Flexible	1.15	0.6	1.4	20.0	26.0	0.0114	488	300
26	1	Flexible	1.30	0.6	1.4	20.5	19.5	0.0104	579	300
26	1.5	Flexible	1.55	0.6	1.4	22.0	13.3	0.0089	702	300
26	2.5	Flexible	2.00	0.7	1.8	26.5	7.98	0.0081	1130	300
26	4	Flexible	2.60	0.8	1.8	32.0	4.95	0.0076	1685	300
26	6	Flexible	3.40	0.8	2.2	37.5	3.30	0.0061	2474	300
27	0.5	Flexible	0.95	0.6	1.4	19.0	39.0	0.0130	410	300
27	0.75	Flexible	1.15	0.6	1.4	20.5	26.0	0.0114	500	300
27	1	Flexible	1.30	0.6	1.4	21.0	19.5	0.0104	595	300
27	1.5	Flexible	1.55	0.6	1.4	22.5	13.3	0.0089	721	300
27	2.5	Flexible	2.00	0.7	1.8	27.5	7.98	0.0081	1159	300
27	4	Flexible	2.60	0.8	1.8	33.0	4.95	0.0076	1732	300
27	6	Flexible	3.40	0.8	2.2	38.5	3.30	0.0061	2541	300
28	0.5	Flexible	0.95	0.6	1.4	19.5	39.0	0.0130	436	300
28	0.75	Flexible	1.15	0.6	1.4	21.0	26.0	0.0114	532	300
28	1	Flexible	1.30	0.6	1.4	21.5	19.5	0.0104	633	300
28	1.5	Flexible	1.55	0.6	1.4	23.5	13.3	0.0089	779	300
28	2.5	Flexible	2.00	0.7	1.8	28.5	7.98	0.0081	1232	300
28	4	Flexible	2.60	0.8	1.8	34.0	4.95	0.0076	1842	300
28	6	Flexible	3.40	0.8	2.2	40.0	3.30	0.0061	2701	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
29	0.5	Flexible	0.95	0.6	1.4	19.5	39.0	0.0130	433	300
29	0.75	Flexible	1.15	0.6	1.4	21.0	26.0	0.0114	531	300
29	1	Flexible	1.30	0.6	1.4	21.5	19.5	0.0104	632	300
29	1.5	Flexible	1.55	0.6	1.4	23.5	13.3	0.0089	780	300
29	2.5	Flexible	2.00	0.7	1.8	28.5	7.98	0.0081	1235	300
29	4	Flexible	2.60	0.8	1.8	34.0	4.95	0.0076	1849	300
29	6	Flexible	3.40	0.8	2.2	40.0	3.30	0.0061	2714	300
30	0.5	Flexible	0.95	0.6	1.4	19.5	39.0	0.0130	443	300
30	0.75	Flexible	1.15	0.6	1.4	21.0	26.0	0.0114	543	300
30	1	Flexible	1.30	0.6	1.4	21.5	19.5	0.0104	647	300
30	1.5	Flexible	1.55	0.6	1.4	23.5	13.3	0.0089	799	300
30	2.5	Flexible	2.00	0.7	1.8	28.5	7.98	0.0081	1266	300
30	4	Flexible	2.60	0.8	1.8	34.0	4.95	0.0076	1899	300
30	6	Flexible	3.40	0.8	2.2	40.0	3.30	0.0061	2790	300