

**SPECIFICATION****For****600V-CVV-S**

600V PVC Insulated

PVC Inner Sheathed PVC Outer Sheathed

Shielded Control Cable

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

BY



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MANAGER, Cable Design Section

Rev.	Date	Description
0	27/09/2019	Issued specification
1	17/01/2020	Adjust approximate thickness inner sheath to minimum thickness inner sheath "ref-EGAT SPEC"
2	21/1/2021	- Change marking on cable - Cancel code "0010"
3	10/6/2021	Change color insulation
4	24/8/2021	Change reference standard
5	2/2/2024	Update Table 1
6	5/4/2024	Update Table 1
7	12/6/2024	Update specification
8	10/2/2025	Update Table 1

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CUSTOMER

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) inner sheathed polyvinyl chloride (PVC) outer sheathed shielded control cable.

The cable shall be based on TIS 838-2531, Table 10.

## **2. Conductor**

The conductor shall be non-compacted concentric stranded uncoated annealed copper conductor in accordance with TIS 838-2531.

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

## **3. Insulation**

The insulation shall be polyvinyl chloride (PVC) compound meet the requirements of TIS 838-2531.

The average thickness of the insulation shall be not less than that given in Table 1.

The minimum thickness shall be not less than 90% of the value in Table 1.

## **4. Cabling**

The individual insulated cores shall be cabled together with suitable length of lay and/or PVC rod and/or non-hygroscopic filler to give the completed cable a circular cross section.

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

A suitable binder tape shall be applied helically over the cable core.

## 5. Core Identification

The cores shall be identified by color or numerals printed on the insulation, as follows :

For 2-cores to 21-cores :

Conductor Number	Base color	Tracer color	Conductor Number	Base color	Tracer color
1	Black	-	12	Black	White
2	White	-	13	Red	White
3	Red	-	14	Green	White
4	Green	-	15	Blue	White
5	Orange	-	16	Black	Red
6	Blue	-	17	White	Red
7	White	Black	18	Orange	Red
8	Red	Black	19	Blue	Red
9	Green	Black	20	Red	Green
10	Orange	Black	21	Orange	Green
11	Blue	Black			

For 22-cores to 30-cores :

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

## 6. Inner Sheath

The inner sheath shall be polyvinyl chloride (PVC) compound meet the requirements of TIS 838-2531.

The minimum thickness shall be not less than 80% of the value in Table 1.

The color of the inner sheath shall be black.

## 7. Metallic Shield

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

The thickness of the copper tape shall be approximate 0.1 mm.

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

## 8. Outer Sheath

The outer sheath shall be sunlight resistant polyvinyl chloride (PVC) compound meet the requirements of TIS 838-2531.


The average thickness of the outer sheath shall not be less than that given in Table 1.

The minimum thickness shall be not less than 80% of the value in Table 1.

The color of the outer sheath shall be black.

## 9. 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. Rated circuit voltage "600V"
4. Type of conductor "CU"
5. Type of insulation and sheath "PVC/PVC"
6. Type of cable "SHIELD CONTROL CABLE"
7. Number of cores and size of conductor
8. TIS logo and standard number
9. The continuous reel length marking (in figure) shall be made on the outer sheath at every 1 meter

## 10. Test and Properties

The cable shall be meet the requirements in Test and Inspection and Table 1 when tested in accordance with TIS 838-2531.


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

## 11. Packing

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

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

Each reel shall be clearly marked on drum or label as follows.

1. Designation "600V-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
7. TIS logo and standard number

## Test and Inspection

### **Routine Tests**

1. Maximum conductor resistance, Ohm/km ..... specified in Table 1
2. AC test voltage for 5 minutes, V .....2500

### **Sample Tests**

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

### **Type Tests**

4. Minimum insulation resistance at 70 °C, MOhm-km..... specified in Table 1

### **Definition concerning the tests**

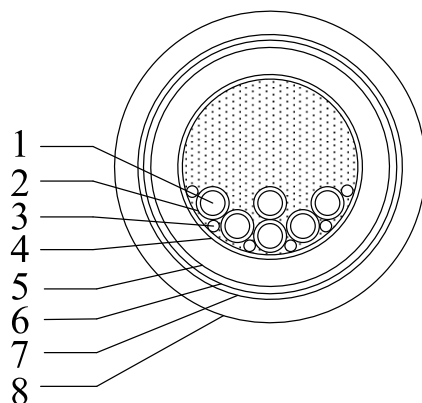
**Routine tests:** Tests made by the manufacturer on each manufactured length of cable to check that each length meets the specified requirements.

**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	Stranded annealed copper
2	Insulation	Polyvinyl chloride (PVC) compound
3	Filler	PVC rod and/or non-hygrosopic
4	Binder tape	PS tape or suitable tape
5	Inner sheath	Polyvinyl chloride (PVC) compound
6	Metallic shield	Copper tape
7	Separator tape	PS tape or suitable tape
8	Outer sheath	Polyvinyl chloride (PVC) 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 <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter maximum  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Outer 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	1	7/Non-compacted	1.4	0.76	1.14	9.5	1.14	12.5	18.1	0.0117	180	300
2	1.5	7/Non-compacted	1.7	1.14	1.14	12.0	1.14	15.0	12.1	0.0136	247	300
2	2.5	7/Non-compacted	2.2	1.14	1.14	12.5	1.14	15.5	7.41	0.0113	285	300
2	4	7/Non-compacted	2.7	1.14	1.14	14.0	1.52	18.0	4.61	0.0098	376	300
2	6	7/Non-compacted	3.3	1.14	1.14	15.0	1.52	19.0	3.08	0.0084	448	300
2	10	7/Non-compacted	4.2	1.14	1.14	17.0	1.52	21.0	1.83	0.0069	582	300
3	1	7/Non-compacted	1.4	0.76	1.14	10.0	1.14	13.0	18.1	0.0117	200	300
3	1.5	7/Non-compacted	1.7	1.14	1.14	12.5	1.14	15.5	12.1	0.0136	283	300
3	2.5	7/Non-compacted	2.2	1.14	1.14	13.5	1.52	17.5	7.41	0.0113	364	300
3	4	7/Non-compacted	2.7	1.14	1.14	14.5	1.52	18.5	4.61	0.0098	444	300
3	6	7/Non-compacted	3.3	1.14	1.14	16.0	1.52	19.5	3.08	0.0084	530	300
3	10	7/Non-compacted	4.2	1.14	1.14	18.0	1.52	22.0	1.83	0.0069	711	300
4	1	7/Non-compacted	1.4	0.76	1.14	11.0	1.14	14.0	18.1	0.0117	233	300
4	1.5	7/Non-compacted	1.7	1.14	1.14	13.5	1.52	17.5	12.1	0.0136	364	300
4	2.5	7/Non-compacted	2.2	1.14	1.14	14.5	1.52	18.5	7.41	0.0113	430	300
4	4	7/Non-compacted	2.7	1.14	1.14	16.0	1.52	20.0	4.61	0.0098	534	300
4	6	7/Non-compacted	3.3	1.14	1.14	17.5	1.52	21.5	3.08	0.0084	644	300
4	10	7/Non-compacted	4.2	1.14	1.14	20.0	2.03	25.0	1.83	0.0069	924	300

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter maximum  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Outer 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	1	7/Non-compacted	1.4	0.76	1.14	12.0	1.14	15.0	18.1	0.0117	267	300
5	1.5	7/Non-compacted	1.7	1.14	1.14	15.0	1.52	19.0	12.1	0.0136	423	300
5	2.5	7/Non-compacted	2.2	1.14	1.14	16.0	1.52	20.0	7.41	0.0113	498	300
5	4	7/Non-compacted	2.7	1.14	1.14	18.0	1.52	21.5	4.61	0.0098	626	300
5	6	7/Non-compacted	3.3	1.14	1.14	19.0	1.52	23.0	3.08	0.0084	762	300
5	10	7/Non-compacted	4.2	1.14	1.14	22.0	2.03	27.0	1.83	0.0069	1104	300
6	1	7/Non-compacted	1.4	0.76	1.14	13.0	1.14	16.0	18.1	0.0117	303	300
6	1.5	7/Non-compacted	1.7	1.14	1.14	16.5	1.52	20.5	12.1	0.0136	484	300
6	2.5	7/Non-compacted	2.2	1.14	1.14	17.5	1.52	21.5	7.41	0.0113	573	300
6	4	7/Non-compacted	2.7	1.14	1.14	19.5	1.52	23.5	4.61	0.0098	725	300
6	6	7/Non-compacted	3.3	1.14	1.14	21.0	2.03	26.0	3.08	0.0084	934	300
7	1	7/Non-compacted	1.4	0.76	1.14	13.0	1.14	16.0	18.1	0.0117	318	300
7	1.5	7/Non-compacted	1.7	1.14	1.14	16.5	1.52	20.5	12.1	0.0136	507	300
7	2.5	7/Non-compacted	2.2	1.14	1.14	17.5	1.52	21.5	7.41	0.0113	606	300
7	4	7/Non-compacted	2.7	1.14	1.14	19.5	1.52	23.5	4.61	0.0098	771	300
7	6	7/Non-compacted	3.3	1.14	1.14	21.0	2.03	26.0	3.08	0.0084	1001	300



**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter maximum  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation esistance at 70 °C minimum (MOhm-km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
8	1	7/Non-compacted	1.4	0.76	1.14	14.0	1.52	18.0	18.1	0.0117	387	300
8	1.5	7/Non-compacted	1.7	1.14	1.14	17.5	1.52	21.5	12.1	0.0136	570	300
8	2.5	7/Non-compacted	2.2	1.14	1.14	19.0	1.52	23.0	7.41	0.0113	691	300
8	4	7/Non-compacted	2.7	1.14	1.14	21.0	2.03	26.0	4.61	0.0098	932	300
8	6	7/Non-compacted	3.3	1.14	1.14	23.0	2.03	28.0	3.08	0.0084	1146	300
9	1	7/Non-compacted	1.4	0.76	1.14	15.0	1.52	19.0	18.1	0.0117	424	300
9	1.5	7/Non-compacted	1.7	1.14	1.14	19.0	1.52	23.0	12.1	0.0136	631	300
9	2.5	7/Non-compacted	2.2	1.14	1.14	20.5	2.03	25.5	7.41	0.0113	825	300
9	4	7/Non-compacted	2.7	1.14	1.14	23.0	2.03	28.0	4.61	0.0098	1043	300
9	6	7/Non-compacted	3.3	1.14	1.14	25.0	2.03	30.0	3.08	0.0084	1284	300
10	1	7/Non-compacted	1.4	0.76	1.14	16.0	1.52	20.0	18.1	0.0117	464	300
10	1.5	7/Non-compacted	1.7	1.14	1.14	20.5	1.52	24.5	12.1	0.0136	696	300
10	2.5	7/Non-compacted	2.2	1.14	1.14	22.5	2.03	27.5	7.41	0.0113	904	300
10	4	7/Non-compacted	2.7	1.14	1.14	25.0	2.03	30.0	4.61	0.0098	1146	300
10	6	7/Non-compacted	3.3	1.14	1.14	27.0	2.03	32.0	3.08	0.0084	1407	300

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter maximum  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation esistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length  (m)
11	1	7/Non-compacted	1.4	0.76	1.14	16.0	1.52	20.0	18.1	0.0117	474	300
11	1.5	7/Non-compacted	1.7	1.14	1.14	20.5	1.52	24.5	12.1	0.0136	712	300
11	2.5	7/Non-compacted	2.2	1.14	1.14	22.5	2.03	27.5	7.41	0.0113	933	300
11	4	7/Non-compacted	2.7	1.14	1.14	25.0	2.03	30.0	4.61	0.0098	1185	300
11	6	7/Non-compacted	3.3	1.14	1.14	27.0	2.03	32.0	3.08	0.0084	1468	300
12	1	7/Non-compacted	1.4	0.76	1.14	16.5	1.52	20.5	18.1	0.0117	510	300
12	1.5	7/Non-compacted	1.7	1.14	1.14	21.5	1.52	25.5	12.1	0.0136	765	300
12	2.5	7/Non-compacted	2.2	1.14	1.14	23.0	2.03	28.0	7.41	0.0113	1000	300
12	4	7/Non-compacted	2.7	1.14	1.14	26.0	2.03	31.0	4.61	0.0098	1280	300
12	6	7/Non-compacted	3.3	1.14	1.14	28.0	2.03	33.0	3.08	0.0084	1588	300
13	1	7/Non-compacted	1.4	0.76	1.14	17.5	1.52	21.5	18.1	0.0117	549	300
13	1.5	7/Non-compacted	1.7	1.14	1.14	22.5	2.03	27.5	12.1	0.0136	874	300
13	2.5	7/Non-compacted	2.2	1.14	1.14	24.5	2.03	29.5	7.41	0.0113	1063	300
13	4	7/Non-compacted	2.7	1.14	1.14	27.0	2.03	32.0	4.61	0.0098	1363	300
13	6	7/Non-compacted	3.3	1.14	1.14	29.5	2.03	34.5	3.08	0.0084	1702	300

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter maximum  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation esistance at 70 °C minimum (MOhm-km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
14	1	7/Non-compacted	1.4	0.76	1.14	17.5	1.52	21.5	18.1	0.0117	550	300
14	1.5	7/Non-compacted	1.7	1.14	1.14	22.5	2.03	27.5	12.1	0.0136	887	300
14	2.5	7/Non-compacted	2.2	1.14	1.14	24.5	2.03	29.5	7.41	0.0113	1078	300
14	4	7/Non-compacted	2.7	1.14	1.14	27.0	2.03	32.0	4.61	0.0098	1397	300
14	6	7/Non-compacted	3.3	1.14	1.14	29.5	2.03	34.5	3.08	0.0084	1739	300
15	1	7/Non-compacted	1.4	0.76	1.14	18.0	1.52	22.0	18.1	0.0117	581	300
15	1.5	7/Non-compacted	1.7	1.14	1.14	23.5	2.03	28.5	12.1	0.0136	949	300
15	2.5	7/Non-compacted	2.2	1.14	1.14	25.5	2.03	30.5	7.41	0.0113	1155	300
15	4	7/Non-compacted	2.7	1.14	1.14	28.0	2.03	33.0	4.61	0.0098	1500	300
15	6	7/Non-compacted	3.3	1.14	1.14	30.5	2.03	35.5	3.08	0.0084	1869	300
16	1	7/Non-compacted	1.4	0.76	1.14	18.5	1.52	22.5	18.1	0.0117	602	300
16	1.5	7/Non-compacted	1.7	1.14	1.14	24.0	2.03	29.0	12.1	0.0136	979	300
16	2.5	7/Non-compacted	2.2	1.14	1.14	26.0	2.03	31.0	7.41	0.0113	1195	300
16	4	7/Non-compacted	2.7	1.14	1.14	29.0	2.03	34.0	4.61	0.0098	1557	300
16	6	7/Non-compacted	3.3	1.14	1.14	31.0	2.03	36.0	3.08	0.0084	1945	300

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter maximum  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation esistance at 70 °C minimum (MOhm-km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
17	1	7/Non-compacted	1.4	0.76	1.14	19.5	1.52	23.5	18.1	0.0117	650	300
17	1.5	7/Non-compacted	1.7	1.14	1.14	25.0	2.03	30.0	12.1	0.0136	1064	300
17	2.5	7/Non-compacted	2.2	1.14	1.14	27.5	2.03	32.5	7.41	0.0113	1305	300
17	4	7/Non-compacted	2.7	1.14	1.14	30.5	2.03	35.5	4.61	0.0098	1691	300
17	6	7/Non-compacted	3.3	1.14	1.14	33.0	2.03	38.0	3.08	0.0084	2113	300
18	1	7/Non-compacted	1.4	0.76	1.14	19.5	1.52	23.5	18.1	0.0117	657	300
18	1.5	7/Non-compacted	1.7	1.14	1.14	25.0	2.03	30.0	12.1	0.0136	1063	300
18	2.5	7/Non-compacted	2.2	1.14	1.14	27.5	2.03	32.5	7.41	0.0113	1303	300
18	4	7/Non-compacted	2.7	1.14	1.14	30.5	2.03	35.5	4.61	0.0098	1696	300
18	6	7/Non-compacted	3.3	1.14	1.14	33.0	2.03	38.0	3.08	0.0084	2129	300
19	1	7/Non-compacted	1.4	0.76	1.14	19.5	1.52	23.5	18.1	0.0117	671	300
19	1.5	7/Non-compacted	1.7	1.14	1.14	25.0	2.03	30.0	12.1	0.0136	1085	300
19	2.5	7/Non-compacted	2.2	1.14	1.14	27.5	2.03	32.5	7.41	0.0113	1335	300
19	4	7/Non-compacted	2.7	1.14	1.14	30.5	2.03	35.5	4.61	0.0098	1741	300
19	6	7/Non-compacted	3.3	1.14	1.14	33.0	2.03	38.0	3.08	0.0084	2195	300

**Table 1 (continued)**

No. of cores	Size (mm <sup>2</sup> )	Conductor (wires/type)	Conductor diameter maximum (mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Dia. of inner sheath approx. (mm)	Outer 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	1	7/Non-compacted	1.4	0.76	1.14	20.0	1.52	24.0	18.1	0.0117	705	300
20	1.5	7/Non-compacted	1.7	1.14	1.14	26.0	2.03	31.0	12.1	0.0136	1141	300
20	2.5	7/Non-compacted	2.2	1.14	1.14	28.0	2.03	33.0	7.41	0.0113	1404	300
20	4	7/Non-compacted	2.7	1.14	1.14	31.0	2.03	36.0	4.61	0.0098	1836	300
20	6	7/Non-compacted	3.3	1.14	1.14	34.0	2.03	39.0	3.08	0.0084	2311	300
21	1	7/Non-compacted	1.4	0.76	1.14	20.5	1.52	24.5	18.1	0.0117	728	300
21	1.5	7/Non-compacted	1.7	1.14	1.14	26.5	2.03	31.5	12.1	0.0136	1213	300
21	2.5	7/Non-compacted	2.2	1.14	1.14	29.0	2.03	34.0	7.41	0.0113	1494	300
21	4	7/Non-compacted	2.7	1.14	1.14	32.0	2.03	37.0	4.61	0.0098	1956	300
21	6	7/Non-compacted	3.3	1.14	1.14	35.0	2.03	40.0	3.08	0.0084	2469	300
22	1	7/Non-compacted	1.4	0.76	1.14	21.5	1.52	25.5	18.1	0.0117	771	300
22	1.5	7/Non-compacted	1.7	1.14	1.14	28.0	2.03	33.0	12.1	0.0136	1251	300
22	2.5	7/Non-compacted	2.2	1.14	1.14	30.5	2.03	35.5	7.41	0.0113	1545	300
22	4	7/Non-compacted	2.7	1.14	1.14	34.0	2.03	39.0	4.61	0.0098	2021	300
22	6	7/Non-compacted	3.3	1.14	1.14	37.0	2.03	42.0	3.08	0.0084	2552	300

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter maximum  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation esistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length  (m)
23	1	7/Non-compacted	1.4	0.76	1.14	21.5	2.03	26.5	18.1	0.0117	840	300
23	1.5	7/Non-compacted	1.7	1.14	1.14	28.0	2.03	33.0	12.1	0.0136	1278	300
23	2.5	7/Non-compacted	2.2	1.14	1.14	30.5	2.03	35.5	7.41	0.0113	1582	300
23	4	7/Non-compacted	2.7	1.14	1.14	34.0	2.03	39.0	4.61	0.0098	2056	300
23	6	7/Non-compacted	3.3	1.14	1.14	37.0	2.03	42.0	3.08	0.0084	2601	300
24	1	7/Non-compacted	1.4	0.76	1.14	22.5	2.03	27.5	18.1	0.0117	880	300
24	1.5	7/Non-compacted	1.7	1.14	1.14	29.5	2.03	34.5	12.1	0.0136	1337	300
24	2.5	7/Non-compacted	2.2	1.14	1.14	32.0	2.03	37.0	7.41	0.0113	1653	300
24	4	7/Non-compacted	2.7	1.14	1.14	35.5	2.03	40.5	4.61	0.0098	2169	300
24	6	7/Non-compacted	3.3	1.14	1.14	39.0	2.03	44.0	3.08	0.0084	2744	300
25	1	7/Non-compacted	1.4	0.76	1.14	22.5	2.03	27.5	18.1	0.0117	898	300
25	1.5	7/Non-compacted	1.7	1.14	1.14	29.5	2.03	34.5	12.1	0.0136	1369	300
25	2.5	7/Non-compacted	2.2	1.14	1.14	32.0	2.03	37.0	7.41	0.0113	1696	300
25	4	7/Non-compacted	2.7	1.14	1.14	35.5	2.03	40.5	4.61	0.0098	2230	300
25	6	7/Non-compacted	3.3	1.14	1.14	39.0	2.03	44.0	3.08	0.0084	2826	300

**Table 1 (continued)**

No. of cores	Size (mm <sup>2</sup> )	Conductor (wires/type)	Conductor diameter maximum (mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Dia. of inner sheath approx. (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Insulation esistance at 70°C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
26	1	7/Non-compacted	1.4	0.76	1.14	22.5	2.03	27.5	18.1	0.0117	917	300
26	1.5	7/Non-compacted	1.7	1.14	1.14	29.5	2.03	34.5	12.1	0.0136	1401	300
26	2.5	7/Non-compacted	2.2	1.14	1.14	32.0	2.03	37.0	7.41	0.0113	1739	300
26	4	7/Non-compacted	2.7	1.14	1.14	35.5	2.03	40.5	4.61	0.0098	2291	300
27	1	7/Non-compacted	1.4	0.76	1.14	23.5	2.03	28.5	18.1	0.0117	941	300
27	1.5	7/Non-compacted	1.7	1.14	1.14	30.5	2.03	35.5	12.1	0.0136	1434	300
27	2.5	7/Non-compacted	2.2	1.14	1.14	33.0	2.03	38.0	7.41	0.0113	1783	300
27	4	7/Non-compacted	2.7	1.14	1.14	36.5	2.03	41.5	4.61	0.0098	2349	300
28	1	7/Non-compacted	1.4	0.76	1.14	24.0	2.03	29.0	18.1	0.0117	1003	300
28	1.5	7/Non-compacted	1.7	1.14	1.14	31.5	2.03	36.5	12.1	0.0136	1534	300
28	2.5	7/Non-compacted	2.2	1.14	1.14	34.0	2.03	39.0	7.41	0.0113	1905	300

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter maximum  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Insulation esistance at 70°C minimum (MOhm-km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
29	1	7/Non-compacted	1.4	0.76	1.14	24.0	2.03	29.0	18.1	0.0117	995	300
29	1.5	7/Non-compacted	1.7	1.14	1.14	31.5	2.03	36.5	12.1	0.0136	1519	300
29	2.5	7/Non-compacted	2.2	1.14	1.14	34.0	2.03	39.0	7.41	0.0113	1892	300
30	1	7/Non-compacted	1.4	0.76	1.14	24.0	2.03	29.0	18.1	0.0117	1014	300
30	1.5	7/Non-compacted	1.7	1.14	1.14	31.5	2.03	36.5	12.1	0.0136	1551	300
30	2.5	7/Non-compacted	2.2	1.14	1.14	34.0	2.03	39.0	7.41	0.0113	1935	300