

# SPECIFICATION

## For

### FDLH-0.6/1KV-CCE-SWA

0.6/1(1.2)kV Copper Conductor XLPE Insulated  
Polyolefin Inner Sheathed Steel Wire Armored  
Polyolefin Outer Sheathed Flame Retardant  
with Low Smoke and Zero Halogen Control Cable  
(0.6/1(1.2)kV, Cu/XLPE/FR-LSOH/SWA/FR-LSOH)

BY



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CUSTOMER

Rev.	Date	Description
0	11/11/2022	Issued specification
1	28/11/2022	Add size 6 x 1.5 mm <sup>2</sup>
2	6/4/2023	Add size 4 x 2.5 mm <sup>2</sup>
3	4/10/2023	Add size 12 x 2.5 mm <sup>2</sup>
4	22/4/2024	Update specification
5	23/1/2025	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 1000V copper conductor cross-linked polyethylene (XLPE) insulated polyolefin inner sheathed steel wire armored polyolefin outer sheathed flame retardant with low smoke and zero halogen control cable.

The cable shall be based on IEC 60502-1 : 2021.

The maximum conductor temperature shall be 90°C.

- Flame retardant test requirements per IEC 60332-1.
- Flame propagation test requirements per IEC 60332-3-22; Category A, IEC 60332-3-23; Category B and IEC 60332-3-24; Category C.
- Low smoke test requirements per IEC 61034.
- Halogen gases determinations test requirements per IEC 60754-1 and IEC 60754-2.

## 2. Conductor

The conductor shall be non-compacted concentric stranded uncoated annealed copper conductor in accordance with IEC 60228 : 2004, Class 2.

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

## 3. Insulation

The insulation shall be cross-linked polyethylene (XLPE) compound meet the requirements of IEC 60502-1 : 2021.

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

The minimum thickness shall not fall below 90% of the nominal value in Table 1 by more than 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 tape shall be applied helically over the cabled core.

## 5. Core Identification

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

2-cores : blue, brown

3-cores : brown, black, grey

4-cores : blue, brown, black, grey

For 5-cores to 30-cores :

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

## 6. Inner Sheath

The inner sheath shall be low smoke and zero halogen flame retardant polyolefin compound applied over the binder tape.

The average thickness given in Table 1.

The color of the inner sheath shall be black.

## 7. Steel Wire Armor

The armor shall be galvanized round steel wire applied with a minimum gap between adjacent wires over the inner sheathed.

A separator tape may be applied helically over the armored core.

## 8. Outer Sheath

The outer sheath shall be sunlight resistant, low smoke and zero halogen flame retardant polyolefin (ST8) compound meet the requirements of IEC 60502-1 : 2021.

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

The minimum thickness shall not fall below 80% of the nominal value in Table 1 by more than 0.2 mm.

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. Cable property code "FDLH"

4. Rated circuit voltage "0.6/1KV"

5. Type of conductor "CU"

6. Type of insulation and sheath "XLPE/LSOH"

7. Type of cable "CONTROL CABLE"

8. Number of cores and size of conductor

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 meet the requirements in Test and Inspection and Table 1, when tested in accordance with IEC 60502-1 : 2021, IEC 60228 : 2004, IEC 60332-1, IEC 60332-3-22; Category A, IEC 60332-3-23; Category B, IEC 60332-3-24; Category C, IEC 61034, IEC 60754-1 and IEC 60754-2.


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 as follows.

1. Designation "FDLH-0.6/1KV-CCE-SWA"
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

- Maximum conductor resistance, Ohm/km..... specified in Table 1
- AC test voltage for 5 minutes, kV..... 3.5

### Sample Tests

- Construction ..... specified in Table 1
- Hot set test at  $200\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$  for XLPE
  - Maximum elongation under load (%) ..... 175
  - Maximum permanent elongation after cooling (%).....15

### Type Tests

- Flame retardant tested according to IEC 60332-1.
- Flame propagation test according to IEC 60332-3-22; Category A or IEC 60332-3-23; Category B or IEC 60332-3-24; Category C.
- Smoke emission tested according to IEC 61034.
- Halogen gases tested according to IEC 60754-1 and IEC 60754-2.

### Definition concerning the tests

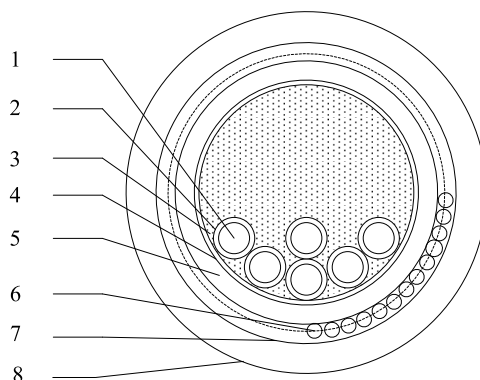
**Routine tests:** Tests made by the manufacturer on each manufactured length of cable to check that each length meets the specified requirements.

**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	Cross-linked polyethylene (XLPE) compound
3	Filler	Non-hygroscopic
4	Binder tape	PS tape or suitable tape
5	Inner sheath	Low smoke and zero halogen flame retardant polyolefin compound
6	Aarmor	Galvanized steel wire
7	Separator tape	PS tape or suitable tape
8	Outer sheath	Low smoke and zero halogen flame retardant polyolefin (ST8) compound

**Application:** For installed into tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and non-toxic emission under fire. Maximum conductor temperature of 90°C for normal operation and 250°C for short circuit condition.

**Table 1**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter approx.  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Armor wire dia. nominal  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
2	1	7/Non-compacted	1.29	0.7	1.2	9.0	0.80	1.8	14.5	18.1	329	500
2	1.5	7/Non-compacted	1.59	0.7	1.2	9.5	0.80	1.8	15.5	12.1	360	500
2	2.5	7/Non-compacted	2.01	0.7	1.2	10.5	0.80	1.8	16.5	7.41	405	500
2	4	7/Non-compacted	2.55	0.7	1.2	11.5	1.25	1.8	18.0	4.61	588	500
2	6	7/Non-compacted	3.12	0.7	1.2	12.5	1.25	1.8	19.5	3.08	680	500
3	1	7/Non-compacted	1.29	0.7	1.2	9.5	0.80	1.8	15.0	18.1	350	500
3	1.5	7/Non-compacted	1.59	0.7	1.2	10.0	0.80	1.8	16.0	12.1	393	500
3	2.5	7/Non-compacted	2.01	0.7	1.2	11.0	1.25	1.8	18.0	7.41	563	500
3	4	7/Non-compacted	2.55	0.7	1.2	12.0	1.25	1.8	19.0	4.61	657	500
3	6	7/Non-compacted	3.12	0.7	1.2	13.5	1.25	1.8	20.0	3.08	769	500
4	1	7/Non-compacted	1.29	0.7	1.2	10.0	0.80	1.8	16.0	18.1	390	500
4	1.5	7/Non-compacted	1.59	0.7	1.2	11.0	1.25	1.8	17.5	12.1	552	500
4	2.5	7/Non-compacted	2.01	0.7	1.2	12.0	1.25	1.8	19.0	7.41	625	500
4	4	7/Non-compacted	2.55	0.7	1.2	13.5	1.25	1.8	20.0	4.61	736	500
4	6	7/Non-compacted	3.12	0.7	1.2	15.0	1.25	1.8	21.5	3.08	883	500
5	1	7/Non-compacted	1.29	0.7	1.2	11.0	1.25	1.8	17.5	18.1	547	500
5	1.5	7/Non-compacted	1.59	0.7	1.2	12.0	1.25	1.8	18.5	12.1	607	500
5	2.5	7/Non-compacted	2.01	0.7	1.2	13.0	1.25	1.8	20.0	7.41	702	500
5	4	7/Non-compacted	2.55	0.7	1.2	14.5	1.25	1.8	21.0	4.61	834	500
5	6	7/Non-compacted	3.12	0.7	1.2	16.0	1.60	1.8	23.5	3.08	1129	500

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter approx.  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Armor wire dia. nominal  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
6	1	7/Non-compacted	1.29	0.7	1.2	12.0	1.25	1.8	18.5	18.1	591	500
6	1.5	7/Non-compacted	1.59	0.7	1.2	12.5	1.25	1.8	19.5	12.1	665	500
6	2.5	7/Non-compacted	2.01	0.7	1.2	14.5	1.25	1.8	21.0	7.41	771	500
6	4	7/Non-compacted	2.55	0.7	1.2	16.0	1.25	1.8	22.5	4.61	927	500
6	6	7/Non-compacted	3.12	0.7	1.2	17.5	1.60	1.8	25.0	3.08	1270	500
7	1	7/Non-compacted	1.29	0.7	1.2	12.0	1.25	1.8	18.5	18.1	601	500
7	1.5	7/Non-compacted	1.59	0.7	1.2	12.5	1.25	1.8	19.5	12.1	679	500
7	2.5	7/Non-compacted	2.01	0.7	1.2	14.5	1.25	1.8	21.0	7.41	794	500
7	4	7/Non-compacted	2.55	0.7	1.2	16.0	1.25	1.8	22.5	4.61	963	500
7	6	7/Non-compacted	3.12	0.7	1.2	17.5	1.60	1.8	25.0	3.08	1324	500
8	1	7/Non-compacted	1.29	0.7	1.2	12.5	1.25	1.8	19.5	18.1	648	500
8	1.5	7/Non-compacted	1.59	0.7	1.2	13.5	1.25	1.8	20.5	12.1	754	500
8	2.5	7/Non-compacted	2.01	0.7	1.2	15.5	1.25	1.8	22.0	7.41	881	500
8	4	7/Non-compacted	2.55	0.7	1.2	17.0	1.60	1.8	24.5	4.61	1198	500
8	6	7/Non-compacted	3.12	0.7	1.2	19.0	1.60	1.8	26.5	3.08	1464	500
9	1	7/Non-compacted	1.29	0.7	1.2	13.5	1.25	1.8	20.5	18.1	706	500
9	1.5	7/Non-compacted	1.59	0.7	1.2	15.0	1.25	1.8	21.5	12.1	804	500
9	2.5	7/Non-compacted	2.01	0.7	1.2	16.5	1.60	1.8	24.0	7.41	1085	500
9	4	7/Non-compacted	2.55	0.7	1.2	18.5	1.60	1.8	26.0	4.61	1317	500
9	6	7/Non-compacted	3.12	0.7	1.2	20.5	1.60	1.8	28.0	3.08	1608	500



**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter approx.  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Armor wire dia. nominal  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
10	1	7/Non-compacted	1.29	0.7	1.2	14.5	1.25	1.8	21.5	18.1	768	500
10	1.5	7/Non-compacted	1.59	0.7	1.2	16.0	1.25	1.8	22.5	12.1	872	500
10	2.5	7/Non-compacted	2.01	0.7	1.2	18.0	1.60	1.8	25.0	7.41	1182	500
10	4	7/Non-compacted	2.55	0.7	1.2	20.0	1.60	1.8	27.0	4.61	1422	500
10	6	7/Non-compacted	3.12	0.7	1.2	22.0	1.60	1.9	30.0	3.08	1768	500
11	1	7/Non-compacted	1.29	0.7	1.2	14.5	1.25	1.8	21.5	18.1	774	500
11	1.5	7/Non-compacted	1.59	0.7	1.2	16.0	1.25	1.8	22.5	12.1	884	500
11	2.5	7/Non-compacted	2.01	0.7	1.2	18.0	1.60	1.8	25.0	7.41	1204	500
11	4	7/Non-compacted	2.55	0.7	1.2	20.0	1.60	1.8	27.0	4.61	1450	500
11	6	7/Non-compacted	3.12	0.7	1.2	22.0	1.60	1.9	30.0	3.08	1818	500
12	1	7/Non-compacted	1.29	0.7	1.2	15.0	1.25	1.8	22.0	18.1	812	500
12	1.5	7/Non-compacted	1.59	0.7	1.2	16.5	1.60	1.8	24.0	12.1	1068	500
12	2.5	7/Non-compacted	2.01	0.7	1.2	18.5	1.60	1.8	26.0	7.41	1266	500
12	4	7/Non-compacted	2.55	0.7	1.2	20.5	1.60	1.8	28.0	4.61	1546	500
12	6	7/Non-compacted	3.12	0.7	1.2	23.0	1.60	1.9	31.0	3.08	1935	500
13	1	7/Non-compacted	1.29	0.7	1.2	16.0	1.60	1.8	23.5	18.1	985	500
13	1.5	7/Non-compacted	1.59	0.7	1.2	17.0	1.60	1.8	24.5	12.1	1120	500
13	2.5	7/Non-compacted	2.01	0.7	1.2	19.5	1.60	1.8	27.0	7.41	1336	500
13	4	7/Non-compacted	2.55	0.7	1.2	21.5	1.60	1.8	29.0	4.61	1638	500
13	6	7/Non-compacted	3.12	0.7	1.2	24.5	1.60	1.9	32.0	3.08	2049	500

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter approx.  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Armor wire dia. nominal  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
14	1	7/Non-compacted	1.29	0.7	1.2	16.0	1.60	1.8	23.5	18.1	990	500
14	1.5	7/Non-compacted	1.59	0.7	1.2	17.0	1.60	1.8	24.5	12.1	1122	500
14	2.5	7/Non-compacted	2.01	0.7	1.2	19.5	1.60	1.8	27.0	7.41	1357	500
14	4	7/Non-compacted	2.55	0.7	1.2	21.5	1.60	1.8	29.0	4.61	1665	500
14	6	7/Non-compacted	3.12	0.7	1.2	24.5	1.60	1.9	32.0	3.08	2086	500
15	1	7/Non-compacted	1.29	0.7	1.2	16.5	1.60	1.8	24.0	18.1	1032	500
15	1.5	7/Non-compacted	1.59	0.7	1.2	18.0	1.60	1.8	25.0	12.1	1171	500
15	2.5	7/Non-compacted	2.01	0.7	1.2	20.0	1.60	1.8	27.5	7.41	1420	500
15	4	7/Non-compacted	2.55	0.7	1.2	22.5	1.60	1.9	30.0	4.61	1768	500
15	6	7/Non-compacted	3.12	0.7	1.2	25.0	1.60	2.0	33.0	3.08	2211	500
16	1	7/Non-compacted	1.29	0.7	1.2	17.0	1.60	1.8	24.0	18.1	1049	500
16	1.5	7/Non-compacted	1.59	0.7	1.2	18.0	1.60	1.8	25.5	12.1	1208	500
16	2.5	7/Non-compacted	2.01	0.7	1.2	20.5	1.60	1.8	28.0	7.41	1466	500
16	4	7/Non-compacted	2.55	0.7	1.2	23.0	1.60	1.9	30.5	4.61	1827	500
16	6	7/Non-compacted	3.12	0.7	1.2	25.5	1.60	2.0	33.5	3.08	2287	500
17	1	7/Non-compacted	1.29	0.7	1.2	17.5	1.60	1.8	25.0	18.1	1121	500
17	1.5	7/Non-compacted	1.59	0.7	1.2	19.0	1.60	1.8	26.5	12.1	1289	500
17	2.5	7/Non-compacted	2.01	0.7	1.2	21.5	1.60	1.8	29.0	7.41	1541	500
17	4	7/Non-compacted	2.55	0.7	1.2	24.0	1.60	1.9	32.0	4.61	1950	500
17	6	7/Non-compacted	3.12	0.7	1.2	27.0	2.00	2.1	36.5	3.08	2707	500

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter approx.  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Armor wire dia. nominal  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
18	1	7/Non-compacted	1.29	0.7	1.2	17.5	1.60	1.8	25.0	18.1	1124	500
18	1.5	7/Non-compacted	1.59	0.7	1.2	19.0	1.60	1.8	26.5	12.1	1297	500
18	2.5	7/Non-compacted	2.01	0.7	1.2	21.5	1.60	1.8	29.0	7.41	1548	500
18	4	7/Non-compacted	2.55	0.7	1.2	24.0	1.60	1.9	32.0	4.61	1960	500
18	6	7/Non-compacted	3.12	0.7	1.2	27.0	2.00	2.1	36.5	3.08	2736	500
19	1	7/Non-compacted	1.29	0.7	1.2	17.5	1.60	1.8	25.0	18.1	1133	500
19	1.5	7/Non-compacted	1.59	0.7	1.2	19.0	1.60	1.8	26.5	12.1	1312	500
19	2.5	7/Non-compacted	2.01	0.7	1.2	21.5	1.60	1.8	29.0	7.41	1570	500
19	4	7/Non-compacted	2.55	0.7	1.2	24.0	1.60	1.9	32.0	4.61	1995	500
19	6	7/Non-compacted	3.12	0.7	1.2	27.0	2.00	2.1	36.5	3.08	2789	500
20	1	7/Non-compacted	1.29	0.7	1.2	18.0	1.60	1.8	25.5	18.1	1170	500
20	1.5	7/Non-compacted	1.59	0.7	1.2	19.5	1.60	1.8	27.0	12.1	1361	500
20	2.5	7/Non-compacted	2.01	0.7	1.2	22.0	1.60	1.8	29.5	7.41	1652	500
20	4	7/Non-compacted	2.55	0.7	1.2	25.0	1.60	1.9	32.5	4.61	2088	500
20	6	7/Non-compacted	3.12	0.7	1.2	28.0	2.00	2.1	37.0	3.08	2902	500
21	1	7/Non-compacted	1.29	0.7	1.2	18.5	1.60	1.8	26.0	18.1	1192	500
21	1.5	7/Non-compacted	1.59	0.7	1.2	20.0	1.60	1.8	27.5	12.1	1402	500
21	2.5	7/Non-compacted	2.01	0.7	1.2	23.0	1.60	1.9	30.5	7.41	1716	500
21	4	7/Non-compacted	2.55	0.7	1.2	25.5	1.60	2.0	33.5	4.61	2202	500
21	6	7/Non-compacted	3.12	0.7	1.2	28.5	2.00	2.1	38.0	3.08	3042	500

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter approx.  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Armor wire dia. nominal  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
22	1	7/Non-compacted	1.29	0.7	1.2	19.5	1.60	1.8	27.0	18.1	1262	500
22	1.5	7/Non-compacted	1.59	0.7	1.2	21.0	1.60	1.8	28.5	12.1	1462	500
22	2.5	7/Non-compacted	2.01	0.7	1.2	24.0	1.60	1.9	31.5	7.41	1809	500
22	4	7/Non-compacted	2.55	0.7	1.2	27.0	2.00	2.0	35.5	4.61	2514	500
22	6	7/Non-compacted	3.12	0.7	1.2	30.0	2.00	2.2	39.5	3.08	3203	500
23	1	7/Non-compacted	1.29	0.7	1.2	19.5	1.60	1.8	27.0	18.1	1270	500
23	1.5	7/Non-compacted	1.59	0.7	1.2	21.0	1.60	1.8	28.5	12.1	1475	500
23	2.5	7/Non-compacted	2.01	0.7	1.2	24.0	1.60	1.9	31.5	7.41	1879	500
23	4	7/Non-compacted	2.55	0.7	1.2	27.0	2.00	2.0	35.5	4.61	2610	500
23	6	7/Non-compacted	3.12	0.7	1.2	30.0	2.00	2.2	39.5	3.08	3336	500
24	1	7/Non-compacted	1.29	0.7	1.2	20.5	1.60	1.8	28.0	18.1	1333	500
24	1.5	7/Non-compacted	1.59	0.7	1.2	22.0	1.60	1.9	30.0	12.1	1565	500
24	2.5	7/Non-compacted	2.01	0.7	1.2	25.0	1.60	1.9	33.0	7.41	1913	500
24	4	7/Non-compacted	2.55	0.7	1.2	28.0	2.00	2.1	37.5	4.61	2686	500
24	6	7/Non-compacted	3.12	0.7	1.2	32.0	2.00	2.2	41.0	3.08	3402	500
25	1	7/Non-compacted	1.29	0.7	1.2	20.5	1.60	1.8	28.0	18.1	1347	500
25	1.5	7/Non-compacted	1.59	0.7	1.2	22.0	1.60	1.9	30.0	12.1	1584	500
25	2.5	7/Non-compacted	2.01	0.7	1.2	25.0	1.60	1.9	33.0	7.41	1942	500
25	4	7/Non-compacted	2.55	0.7	1.2	28.0	2.00	2.1	37.5	4.61	2729	500
25	6	7/Non-compacted	3.12	0.7	1.2	32.0	2.00	2.2	41.0	3.08	3464	500

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter approx.  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal  (mm)	Dia. of inner sheath approx.  (mm)	Armor wire dia. nominal  (mm)	Outer sheath thickness nominal  (mm)	Overall diameter approx.  (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Weight of cable approx.  (kg/km)	Standard packing length  (m)
26	1	7/Non-compacted	1.29	0.7	1.2	20.5	1.60	1.8	28.0	18.1	1361	500
26	1.5	7/Non-compacted	1.59	0.7	1.2	22.0	1.60	1.9	30.0	12.1	1603	500
26	2.5	7/Non-compacted	2.01	0.7	1.2	25.0	1.60	1.9	33.0	7.41	1971	500
26	4	7/Non-compacted	2.55	0.7	1.2	28.0	2.00	2.1	37.5	4.61	2773	500
26	6	7/Non-compacted	3.12	0.7	1.2	32.0	2.00	2.2	41.0	3.08	3527	500
27	1	7/Non-compacted	1.29	0.7	1.2	21.0	1.60	1.8	28.5	18.1	1393	500
27	1.5	7/Non-compacted	1.59	0.7	1.2	23.0	1.60	1.9	30.5	12.1	1641	500
27	2.5	7/Non-compacted	2.01	0.7	1.2	26.0	1.60	2.0	34.0	7.41	2032	500
27	4	7/Non-compacted	2.55	0.7	1.2	29.0	2.00	2.1	38.0	4.61	2869	500
27	6	7/Non-compacted	3.12	0.7	1.2	32.5	2.00	2.2	42.0	3.08	3615	500
28	1	7/Non-compacted	1.29	0.7	1.2	21.5	1.60	1.8	29.0	18.1	1454	500
28	1.5	7/Non-compacted	1.59	0.7	1.2	23.5	1.60	1.9	31.5	12.1	1730	500
28	2.5	7/Non-compacted	2.01	0.7	1.2	27.0	2.00	2.0	36.0	7.41	2369	500
28	4	7/Non-compacted	2.55	0.7	1.2	30.0	2.00	2.1	39.0	4.61	2995	500
28	6	7/Non-compacted	3.12	0.7	1.2	34.0	2.00	2.3	43.5	3.08	3822	500
29	1	7/Non-compacted	1.29	0.7	1.2	21.5	1.60	1.8	29.0	18.1	1450	500
29	1.5	7/Non-compacted	1.59	0.7	1.2	23.5	1.60	1.9	31.5	12.1	1727	500
29	2.5	7/Non-compacted	2.01	0.7	1.2	27.0	2.00	2.0	36.0	7.41	2369	500
29	4	7/Non-compacted	2.55	0.7	1.2	30.0	2.00	2.1	39.0	4.61	3001	500
29	6	7/Non-compacted	3.12	0.7	1.2	34.0	2.00	2.3	43.5	3.08	3836	500

**Table 1 (continued)**

No. of cores	Size  (mm <sup>2</sup> )	Conductor  (wires/type)	Conductor diameter approx.  (mm)	Insulation thickness nominal  (mm)	Inner sheath thickness nominal (mm)	Dia. of inner sheath approx. (mm)	Aarmor wire dia. nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Weight of cable approx. (kg/km)	Standard packing length (m)
30	1	7/Non-compacted	1.29	0.7	1.2	21.5	1.60	1.8	29.0	18.1	1464	500
30	1.5	7/Non-compacted	1.59	0.7	1.2	23.5	1.60	1.9	31.5	12.1	1746	500
30	2.5	7/Non-compacted	2.01	0.7	1.2	27.0	2.00	2.0	36.0	7.41	2398	500
30	4	7/Non-compacted	2.55	0.7	1.2	30.0	2.00	2.1	39.0	4.61	3045	500
30	6	7/Non-compacted	3.12	0.7	1.2	34.0	2.00	2.3	43.5	3.08	3900	500