

SPECIFICATION

For

FS/FDLH-0.6/1KV-CCE

0.6/1(1.2)kV Copper Conductor Mica fire-barrier
XLPE Insulated Polyolefin Sheathed
Fire Resistance and Flame Retardant
with Low Smoke and Zero Halogen Control Cable
(0.6/1(1.2)kV, Cu/Mica/XLPE/FR-LSOH)

BY



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MANAGER, Cable Design Section

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CUSTOMER

Rev.	Date	Description
0	4/6/2020	Issued specification
1	16/11/2020	Add size 2x4, 3x1.5, 5x2.5, 15x2.5, 25x2.5 mm ²
2	15/01/2021	Cancel cable code "0010"
3	21/12/2022	Add size 5, 7 x 1.5 mm ²
4	5/5/2023	Add size
5	29/1/2024	Add size
6	21/2/2024	Add size 6 x 6 mm ²
7	25/3/2024	Update marking and add size 6x4 mm ²
8	7/5/2024	Update specification
9	12/6/2024	Add all size
10	8/8/2024	Add size 32C, 34C, 38C, 40C
11	20/11/2024	Update Table 1
12	19/12/2024	Add size 44x1 and 46x1 mm ² and Update conductor diameter for size 10 mm ²

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 mica fire-barrier cross-linked polyethylene (XLPE) insulated polyolefin sheathed fire resistant and 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.

Fire resistant tested according to BS 6387 Category CWZ.

Remark : Resistance to fire with water (W) and with mechanical shock (Z) ; Not all sizes or types of cable with overall diameters greater than 20 mm. can be presently accommodated with in the standard and guidance on testing these cables should be sought from the manufacturer.

- 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.
- Extremely low toxicity gases test requirements per IEC 60684-2 and Defence Standard 02-713.

For core and size of conductor as below :

Number of core	Size (mm ²)
2 - 48	1.5 - 2.5
2 - 35	4

2. Conductor

For size $\leq 6 \text{ mm}^2$:

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.

For size $\geq 10 \text{ mm}^2$:

The conductor shall be 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 in the outermost layer.

3. Fire Barrier Tape

The mica tape shall be longitudinally applied over the conductor

4. 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.

5. 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.

6. 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 :

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

7. Sheath

The 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 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 sheath shall be orange.

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. Cable property cable "FS/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 sheath at every 1 meter

9. 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, BS 6387 Category CWZ., 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, IEC 60754-2, IEC 60684-2 and Defence Standard 02-713.

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


For longer life of cable should be avoid exposure to direct solar radiation it necessary, cover is required.

10. 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 "FS/FDLH-0.6/1KV-CCE"
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

- Fire resistant tested according to BS 6387 Category CWZ.
- 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.
- Extremely low toxicity gases test according to IEC 60684-2 and Defence Standard 02-713.

Definition concerning the tests

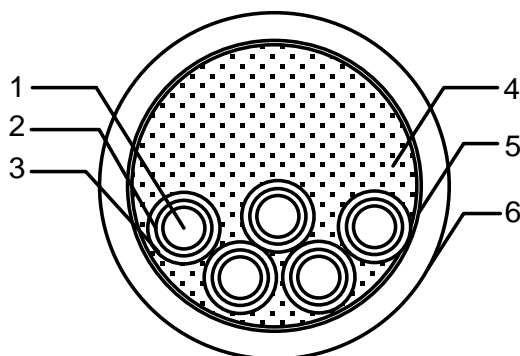
Routine tests: Tests made by the manufacturer on each manufactured length of cable to check that each length meets the specified requirements.

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	Fire Barrier	Mica tape
3	Insulation	Cross-linked polyethylene (XLPE) compound
4	Filler	Non-hygroscopic
5	Binder Tape	PS tape or suitable tape
6	Sheath	Low smoke and zero halogen flame retardant polyolefin (ST8) compound

Application: For installation into open tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and maintain circuit integrity in case of fire. Maximum conductor temperature of 90°C for normal operation and 250°C for short circuit conditions.

Table 1

No. of cores	Size (mm ²)	Conductor (wires/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)	Weight of cable approx. (kg/km)	Standard packing length (m)
2	1	7/Non-compacted	1.29	0.7	1.8	11.5	18.1	128	300
2	1.5	7/Non-compacted	1.59	0.7	1.8	12.5	12.1	148	300
2	2.5	7/Non-compacted	2.01	0.7	1.8	13.0	7.41	181	300
2	4	7/Non-compacted	2.55	0.7	1.8	14.5	4.61	226	300
2	6	7/Non-compacted	3.12	0.7	1.8	15.5	3.08	281	300
2	10	7/Compacted	3.70	0.7	1.8	16.5	1.83	376	300
3	1	7/Non-compacted	1.29	0.7	1.8	12.5	18.1	148	300
3	1.5	7/Non-compacted	1.59	0.7	1.8	13.0	12.1	173	300
3	2.5	7/Non-compacted	2.01	0.7	1.8	14.0	7.41	219	300
3	4	7/Non-compacted	2.55	0.7	1.8	15.0	4.61	279	300
3	6	7/Non-compacted	3.12	0.7	1.8	16.5	3.08	357	300
3	10	7/Compacted	3.70	0.7	1.8	17.5	1.83	484	300
4	1	7/Non-compacted	1.29	0.7	1.8	13.0	18.1	175	300
4	1.5	7/Non-compacted	1.59	0.7	1.8	14.0	12.1	210	300
4	2.5	7/Non-compacted	2.01	0.7	1.8	15.0	7.41	266	300
4	4	7/Non-compacted	2.55	0.7	1.8	16.5	4.61	345	300
4	6	7/Non-compacted	3.12	0.7	1.8	18.0	3.08	446	300
4	10	7/Compacted	3.70	0.7	1.8	19.0	1.83	611	300
5	1	7/Non-compacted	1.29	0.7	1.8	14.5	18.1	206	300
5	1.5	7/Non-compacted	1.59	0.7	1.8	15.0	12.1	245	300
5	2.5	7/Non-compacted	2.01	0.7	1.8	16.0	7.41	318	300
5	4	7/Non-compacted	2.55	0.7	1.8	18.0	4.61	411	300
5	6	7/Non-compacted	3.12	0.7	1.8	19.5	3.08	536	300
5	10	7/Compacted	3.70	0.7	1.8	21.0	1.83	741	300
6	1	7/Non-compacted	1.29	0.7	1.8	15.5	18.1	238	300
6	1.5	7/Non-compacted	1.59	0.7	1.8	16.5	12.1	285	300
6	2.5	7/Non-compacted	2.01	0.7	1.8	17.5	7.41	374	300
6	4	7/Non-compacted	2.55	0.7	1.8	19.5	4.61	483	300
6	6	7/Non-compacted	3.12	0.7	1.8	21.0	3.08	636	300
6	10	7/Compacted	3.70	0.7	1.8	22.5	1.83	883	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor (wires/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)	Weight of cable approx. (kg/km)	Standard packing length (m)
7	1	7/Non-compacted	1.29	0.7	1.8	15.5	18.1	252	300
7	1.5	7/Non-compacted	1.59	0.7	1.8	16.5	12.1	304	300
7	2.5	7/Non-compacted	2.01	0.7	1.8	17.5	7.41	401	300
7	4	7/Non-compacted	2.55	0.7	1.8	19.5	4.61	525	300
7	6	7/Non-compacted	3.12	0.7	1.8	21.0	3.08	694	300
7	10	7/Compacted	3.70	0.7	1.8	22.5	1.83	973	300
8	1	7/Non-compacted	1.29	0.7	1.8	16.5	18.1	292	300
8	1.5	7/Non-compacted	1.59	0.7	1.8	17.5	12.1	351	300
8	2.5	7/Non-compacted	2.01	0.7	1.8	19.0	7.41	459	300
8	4	7/Non-compacted	2.55	0.7	1.8	21.0	4.61	613	300
8	6	7/Non-compacted	3.12	0.7	1.8	23.0	3.08	804	300
8	10	7/Compacted	3.70	0.7	1.8	24.5	1.83	1127	300
9	1	7/Non-compacted	1.29	0.7	1.8	17.5	18.1	328	300
9	1.5	7/Non-compacted	1.59	0.7	1.8	18.5	12.1	394	300
9	2.5	7/Non-compacted	2.01	0.7	1.8	20.0	7.41	514	300
9	4	7/Non-compacted	2.55	0.7	1.8	22.5	4.61	687	300
9	6	7/Non-compacted	3.12	0.7	1.8	24.5	3.08	906	300
9	10	7/Compacted	3.70	0.7	1.8	26.5	1.83	1274	300
10	1	7/Non-compacted	1.29	0.7	1.8	19.0	18.1	358	300
10	1.5	7/Non-compacted	1.59	0.7	1.8	20.0	12.1	433	300
10	2.5	7/Non-compacted	2.01	0.7	1.8	21.5	7.41	571	300
10	4	7/Non-compacted	2.55	0.7	1.8	24.0	4.61	760	300
10	6	7/Non-compacted	3.12	0.7	1.8	26.5	3.08	1003	300
10	10	7/Compacted	3.70	0.7	1.8	28.5	1.83	1399	300
11	1	7/Non-compacted	1.29	0.7	1.8	19.0	18.1	371	300
11	1.5	7/Non-compacted	1.59	0.7	1.8	20.0	12.1	451	300
11	2.5	7/Non-compacted	2.01	0.7	1.8	21.5	7.41	593	300
11	4	7/Non-compacted	2.55	0.7	1.8	24.0	4.61	798	300
11	6	7/Non-compacted	3.12	0.7	1.8	26.5	3.08	1054	300
11	10	7/Compacted	3.70	0.7	1.8	28.5	1.83	1488	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor (wires/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)	Weight of cable approx. (kg/km)	Standard packing length (m)
12	1	7/Non-compacted	1.29	0.7	1.8	19.5	18.1	394	300
12	1.5	7/Non-compacted	1.59	0.7	1.8	20.5	12.1	489	300
12	2.5	7/Non-compacted	2.01	0.7	1.8	22.5	7.41	643	300
12	4	7/Non-compacted	2.55	0.7	1.8	25.0	4.61	864	300
12	6	7/Non-compacted	3.12	0.7	1.8	27.5	3.08	1150	300
12	10	7/Compacted	3.70	0.7	1.9	29.5	1.83	1642	300
13	1	7/Non-compacted	1.29	0.7	1.8	20.5	18.1	425	300
13	1.5	7/Non-compacted	1.59	0.7	1.8	22.0	12.1	517	300
13	2.5	7/Non-compacted	2.01	0.7	1.8	23.5	7.41	690	300
13	4	7/Non-compacted	2.55	0.7	1.8	26.0	4.61	926	300
13	6	7/Non-compacted	3.12	0.7	1.8	29.0	3.08	1241	300
13	10	7/Compacted	3.70	0.7	1.9	31.5	1.83	1766	300
14	1	7/Non-compacted	1.29	0.7	1.8	20.5	18.1	427	300
14	1.5	7/Non-compacted	1.59	0.7	1.8	22.0	12.1	535	300
14	2.5	7/Non-compacted	2.01	0.7	1.8	23.5	7.41	710	300
14	4	7/Non-compacted	2.55	0.7	1.8	26.0	4.61	952	300
14	6	7/Non-compacted	3.12	0.7	1.8	29.0	3.08	1280	300
14	10	7/Compacted	3.70	0.7	1.9	31.5	1.83	1843	300
15	1	7/Non-compacted	1.29	0.7	1.8	21.0	18.1	460	300
15	1.5	7/Non-compacted	1.59	0.7	1.8	22.5	12.1	576	300
15	2.5	7/Non-compacted	2.01	0.7	1.8	24.5	7.41	767	300
15	4	7/Non-compacted	2.55	0.7	1.8	27.0	4.61	1029	300
15	6	7/Non-compacted	3.12	0.7	1.8	30.0	3.08	1384	300
15	10	7/Compacted	3.70	0.7	1.9	32.5	1.83	1978	300
16	1	7/Non-compacted	1.29	0.7	1.8	21.5	18.1	476	300
16	1.5	7/Non-compacted	1.59	0.7	1.8	23.0	12.1	599	300
16	2.5	7/Non-compacted	2.01	0.7	1.8	25.0	7.41	797	300
16	4	7/Non-compacted	2.55	0.7	1.8	27.5	4.61	1074	300
16	6	7/Non-compacted	3.12	0.7	1.9	30.5	3.08	1459	300
16	10	7/Compacted	3.70	0.7	2.0	33.5	1.83	2091	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor (wires/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)	Weight of cable approx. (kg/km)	Standard packing length (m)
17	1	7/Non-compacted	1.29	0.7	1.8	22.5	18.1	529	300
17	1.5	7/Non-compacted	1.59	0.7	1.8	24.0	12.1	650	300
17	2.5	7/Non-compacted	2.01	0.7	1.8	26.0	7.41	873	300
17	4	7/Non-compacted	2.55	0.7	1.8	29.0	4.61	1178	300
17	6	7/Non-compacted	3.12	0.7	1.9	32.5	3.08	1590	300
17	10	7/Compacted	3.70	0.7	2.0	35.0	1.83	2273	300
18	1	7/Non-compacted	1.29	0.7	1.8	22.5	18.1	526	300
18	1.5	7/Non-compacted	1.59	0.7	1.8	24.0	12.1	653	300
18	2.5	7/Non-compacted	2.01	0.7	1.8	26.0	7.41	876	300
18	4	7/Non-compacted	2.55	0.7	1.8	29.0	4.61	1186	300
18	6	7/Non-compacted	3.12	0.7	1.9	32.5	3.08	1607	300
18	10	7/Compacted	3.70	0.7	2.0	35.0	1.83	2316	300
19	1	7/Non-compacted	1.29	0.7	1.8	22.5	18.1	540	300
19	1.5	7/Non-compacted	1.59	0.7	1.8	24.0	12.1	671	300
19	2.5	7/Non-compacted	2.01	0.7	1.8	26.0	7.41	903	300
19	4	7/Non-compacted	2.55	0.7	1.8	29.0	4.61	1226	300
19	6	7/Non-compacted	3.12	0.7	1.9	32.5	3.08	1665	300
19	10	7/Compacted	3.70	0.7	2.0	35.0	1.83	2406	300
20	1	7/Non-compacted	1.29	0.7	1.8	23.0	18.1	570	300
20	1.5	7/Non-compacted	1.59	0.7	1.8	24.5	12.1	708	300
20	2.5	7/Non-compacted	2.01	0.7	1.8	26.5	7.41	958	300
20	4	7/Non-compacted	2.55	0.7	1.8	30.0	4.61	1298	300
20	6	7/Non-compacted	3.12	0.7	1.9	33.0	3.08	1764	300
20	10	7/Compacted	3.70	0.7	2.1	36.0	1.83	2566	300
21	1	7/Non-compacted	1.29	0.7	1.8	23.5	18.1	592	300
21	1.5	7/Non-compacted	1.59	0.7	1.8	25.5	12.1	737	300
21	2.5	7/Non-compacted	2.01	0.7	1.8	27.5	7.41	995	300
21	4	7/Non-compacted	2.55	0.7	1.9	31.0	4.61	1368	300
21	6	7/Non-compacted	3.12	0.7	2.0	34.5	3.08	1856	300
21	10	7/Compacted	3.70	0.7	2.1	37.0	1.83	2677	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor (wires/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)	Weight of cable approx. (kg/km)	Standard packing length (m)
22	1	7/Non-compacted	1.29	0.7	1.8	25.0	18.1	631	300
22	1.5	7/Non-compacted	1.59	0.7	1.8	26.5	12.1	785	300
22	2.5	7/Non-compacted	2.01	0.7	1.8	29.0	7.41	1057	300
22	4	7/Non-compacted	2.55	0.7	1.9	32.5	4.61	1452	300
22	6	7/Non-compacted	3.12	0.7	2.0	36.0	3.08	1968	300
22	10	7/Compacted	3.70	0.7	2.2	39.5	1.83	2853	300
23	1	7/Non-compacted	1.29	0.7	1.8	25.0	18.1	648	300
23	1.5	7/Non-compacted	1.59	0.7	1.8	26.5	12.1	806	300
23	2.5	7/Non-compacted	2.01	0.7	1.8	29.0	7.41	1089	300
23	4	7/Non-compacted	2.55	0.7	1.9	32.5	4.61	1497	300
23	6	7/Non-compacted	3.12	0.7	2.0	36.0	3.08	2032	300
23	10	7/Compacted	3.70	0.7	2.2	39.5	1.83	2952	300
24	1	7/Non-compacted	1.29	0.7	1.8	26.0	18.1	676	300
24	1.5	7/Non-compacted	1.59	0.7	1.8	28.0	12.1	842	300
24	2.5	7/Non-compacted	2.01	0.7	1.9	30.5	7.41	1152	300
24	4	7/Non-compacted	2.55	0.7	2.0	34.5	4.61	1580	300
24	6	7/Non-compacted	3.12	0.7	2.1	38.0	3.08	2139	300
25	1	7/Non-compacted	1.29	0.7	1.8	26.0	18.1	695	300
25	1.5	7/Non-compacted	1.59	0.7	1.8	28.0	12.1	867	300
25	2.5	7/Non-compacted	2.01	0.7	1.9	30.5	7.41	1187	300
25	4	7/Non-compacted	2.55	0.7	2.0	34.5	4.61	1631	300
25	6	7/Non-compacted	3.12	0.7	2.1	38.0	3.08	2211	300
26	1	7/Non-compacted	1.29	0.7	1.8	26.0	18.1	714	300
26	1.5	7/Non-compacted	1.59	0.7	1.8	28.0	12.1	893	300
26	2.5	7/Non-compacted	2.01	0.7	1.9	30.5	7.41	1224	300
26	4	7/Non-compacted	2.55	0.7	2.0	34.5	4.61	1683	300
26	6	7/Non-compacted	3.12	0.7	2.1	38.0	3.08	2284	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor (wires/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)	Weight of cable approx. (kg/km)	Standard packing length (m)
27	1	7/Non-compacted	1.29	0.7	1.8	26.5	18.1	731	300
27	1.5	7/Non-compacted	1.59	0.7	1.8	28.5	12.1	915	300
27	2.5	7/Non-compacted	2.01	0.7	1.9	31.0	7.41	1254	300
27	4	7/Non-compacted	2.55	0.7	2.0	35.0	4.61	1726	300
27	6	7/Non-compacted	3.12	0.7	2.1	39.0	3.08	2346	300
28	1	7/Non-compacted	1.29	0.7	1.8	27.5	18.1	792	300
28	1.5	7/Non-compacted	1.59	0.7	1.8	29.5	12.1	988	300
28	2.5	7/Non-compacted	2.01	0.7	1.9	32.5	7.41	1350	300
28	4	7/Non-compacted	2.55	0.7	2.0	36.5	4.61	1853	300
29	1	7/Non-compacted	1.29	0.7	1.8	27.5	18.1	779	300
29	1.5	7/Non-compacted	1.59	0.7	1.8	29.5	12.1	975	300
29	2.5	7/Non-compacted	2.01	0.7	1.9	32.5	7.41	1339	300
29	4	7/Non-compacted	2.55	0.7	2.0	36.5	4.61	1845	300
30	1	7/Non-compacted	1.29	0.7	1.8	27.5	18.1	799	300
30	1.5	7/Non-compacted	1.59	0.7	1.8	29.5	12.1	1001	300
30	2.5	7/Non-compacted	2.01	0.7	1.9	32.5	7.41	1375	300
30	4	7/Non-compacted	2.55	0.7	2.0	36.5	4.61	1898	300
32	1	7/Non-compacted	1.29	0.7	1.8	28.5	18.1	848	300
32	1.5	7/Non-compacted	1.59	0.7	1.9	31.0	12.1	1078	300
32	2.5	7/Non-compacted	2.01	0.7	2.0	34.0	7.41	1479	300
32	4	7/Non-compacted	2.55	0.7	2.1	38.0	4.61	2038	300
34	1	7/Non-compacted	1.29	0.7	1.8	29.5	18.1	930	300
34	1.5	7/Non-compacted	1.59	0.7	1.9	32.0	12.1	1179	300
34	2.5	7/Non-compacted	2.01	0.7	2.0	35.0	7.41	1616	300
34	4	7/Non-compacted	2.55	0.7	2.1	39.5	4.61	2221	300
36	1	7/Non-compacted	1.29	0.7	1.8	29.5	18.1	936	300
36	1.5	7/Non-compacted	1.59	0.7	1.9	32.0	12.1	1192	300
36	2.5	7/Non-compacted	2.01	0.7	2.0	35.0	7.41	1641	300
36	4	7/Non-compacted	2.55	0.7	2.1	39.5	4.61	2266	300

Table 1 (continued)

No. of cores	Size (mm ²)	Conductor (wires/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)	Weight of cable approx. (kg/km)	Standard packing length (m)
37	1	7/Non-compacted	1.29	0.7	1.8	29.5	18.1	952	300
37	1.5	7/Non-compacted	1.59	0.7	1.9	32.0	12.1	1213	300
37	2.5	7/Non-compacted	2.01	0.7	2.0	35.0	7.41	1670	300
37	4	7/Non-compacted	2.55	0.7	2.1	39.5	4.61	2309	300
38	1	7/Non-compacted	1.29	0.7	1.9	31.0	18.1	1004	300
38	1.5	7/Non-compacted	1.59	0.7	1.9	33.5	12.1	1261	300
38	2.5	7/Non-compacted	2.01	0.7	2.1	36.5	7.41	1750	300
40	1	7/Non-compacted	1.29	0.7	1.9	31.0	18.1	1037	300
40	1.5	7/Non-compacted	1.59	0.7	1.9	33.5	12.1	1306	300
40	2.5	7/Non-compacted	2.01	0.7	2.1	36.5	7.41	1817	300
44	1	7/Non-compacted	1.29	0.7	1.9	33.5	18.1	1141	300
46	1	7/Non-compacted	1.29	0.7	1.9	33.5	18.1	1180	300
48	1	7/Non-compacted	1.29	0.7	1.9	34.0	18.1	1216	300
48	1.5	7/Non-compacted	1.59	0.7	2.0	37.0	12.1	1553	300