

0.6/1kV PVC Insulated Control Cables (Non-armoured & Armoured Type)

With polyester coated aluminum tape shield

(0.6/1kV TFR-CVV-AMS, TFR-CVVAV-AMS, TFR-CVV-I/CAMS, TFR-CVVAV-I/CAMS)

SCOPE

This cable is designed for the purpose of using in control system in power plant and substation.

APPLICATION STANDARDS

IEC 60502-1 Power cables with extruded insulation and their accessories for rated voltages

from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV)

IEC 60332-3-24 Tests on electric cables under fire conditions - Part 3-24 : Test for vertical flame spread of vertically-mounted bunched wires or cables - Category C

MATERIALS & CONSTRUCTION

| | |
|-----------------------|---|
| Conductor | Annealed copper wires, Class 2 (Circular stranded type) |
| Insulation | PVC (Max. operating conductor temperature, 70°C) |
| Pairs/Triads | Twisted with polyester coated Al. tape and a drain wire in electrical contact (for Pairs/Triads cables) |
| Assembly | Concentric layers |
| Common Shield | Polyester coated Aluminum tape in electrical contact with a drain wire |
| Inner Covering | Extruded black PVC (for armoured cables only) |
| Armour | Galvanized steel round wires (for armoured cables only) |
| Oversheath | Flame retardant black PVC (FR-PVC/ST1) |

CORE IDENTIFICATION

For Core type

| | |
|------------------|---------------------------------------|
| 2cores | Brown and Black |
| 3cores | Brown, Black and Gray |
| 3cores + N | Brown, Black, Gray + Blue |
| 3cores + PE | Brown, Black, Gray + Green/Yellow |
| 5cores and above | Numbering on black colored insulation |

For Pairs/Triads type

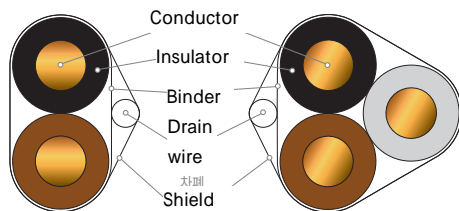
| | |
|------------------------|---|
| Pair | Brown and Black |
| Triad | Brown, Black and Gray |
| Multi pairs and Triads | Numbering on colored insulation as above pair/triad |

OPTION

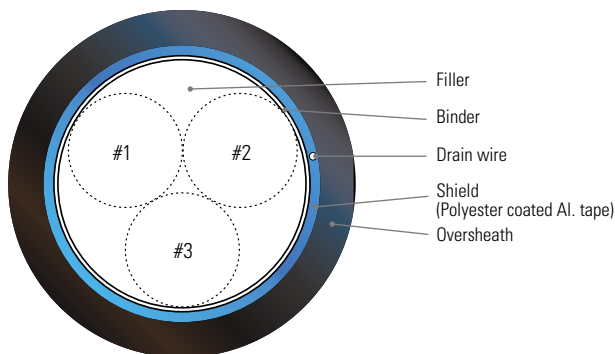
Different color of core identification and oversheath

Flame Retardant : Cat. A or Cat. B in accordance with IEC 60332-3-22, -23

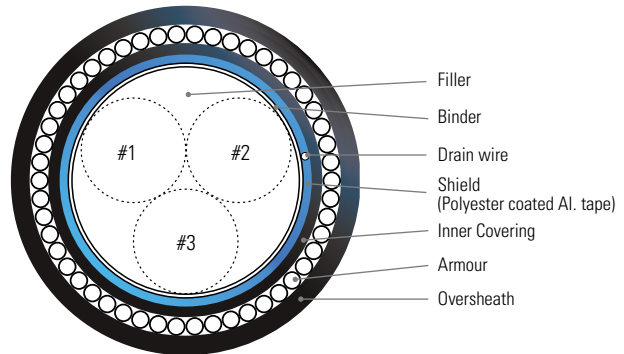
Oil Resistance, Anti-termites, Anti-rodent, Ozone resistance



Non-armoured Type



Armoured Type



Core type with common shielded cables
(Non-armoured Type, 0.6/1kV CU/PVC/CS/PVC)
(0.6/1kV TFR-CVV-AMS)

| Nos. of Core | Conductor | | | Thick. of Insulation (nom.) | Thickness of Oversight (nom.) | Overall Diameter (approx.) | Max. DC Conductor Resistance at 20°C | Net weight (approx.) |
|--------------|-----------------|--------------|----------------------|-----------------------------|-------------------------------|----------------------------|--------------------------------------|----------------------|
| | Conductor Size | Construction | Outer Dia. (approx.) | | | | | |
| | mm ² | Nos./mm | mm | | | | | |
| 2 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 12 | 12.1 | 160 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 13 | 7.41 | 190 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 15 | 4.61 | 260 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 17 | 3.08 | 320 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 19 | 1.83 | 430 |
| 3 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 13 | 12.1 | 190 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 14 | 7.41 | 240 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 16 | 4.61 | 330 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 17 | 3.08 | 410 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.8 | 20 | 1.83 | 570 |
| 4 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 14 | 12.1 | 230 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 15 | 7.41 | 290 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 17 | 4.61 | 410 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 19 | 3.08 | 520 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.8 | 21 | 1.83 | 720 |
| 5 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 15 | 12.1 | 270 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 16 | 7.41 | 340 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 19 | 4.61 | 490 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 20 | 3.08 | 630 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.8 | 23 | 1.83 | 870 |
| 6 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 16 | 12.1 | 310 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 17 | 7.41 | 400 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 20 | 4.61 | 580 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 22 | 3.08 | 740 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.8 | 25 | 1.83 | 1040 |
| 7 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 16 | 12.1 | 340 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 17 | 7.41 | 430 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 20 | 4.61 | 630 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 22 | 3.08 | 810 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.8 | 25 | 1.83 | 1150 |
| 8 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 17 | 12.1 | 390 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 19 | 7.41 | 490 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 22 | 4.61 | 730 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 24 | 3.08 | 940 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.8 | 27 | 1.83 | 1330 |
| 10 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 19 | 12.1 | 470 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 21 | 7.41 | 600 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 25 | 4.61 | 890 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 27 | 3.08 | 1150 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.8 | 31 | 1.83 | 1640 |
| 12 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 20 | 12.1 | 530 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 22 | 7.41 | 690 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 26 | 4.61 | 1030 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 29 | 3.08 | 1330 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.8 | 33 | 1.83 | 1910 |

| Nos. of Core | Conductor | | | Thick. of Insulation (nom.) | Thickness of Oversheath (nom.) | Overall Diameter (approx.) | Max. DC Conductor Resistance at 20°C | Net weight (approx.) |
|--------------|-----------------|--------------|----------------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------|----------------------|
| | Conductor Size | Construction | Outer Dia. (approx.) | | | | | |
| | mm ² | Nos./mm | mm | mm | mm | mm | Ω/km | mm |
| 15 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 21 | 12.1 | 640 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 23 | 7.41 | 830 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 28 | 4.61 | 1250 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 31 | 3.08 | 1630 |
| 20 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 24 | 12.1 | 820 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 26 | 7.41 | 1070 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.8 | 32 | 4.61 | 1630 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.8 | 35 | 3.08 | 2130 |
| 30 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 28 | 12.1 | 1160 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 31 | 7.41 | 1540 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.9 | 38 | 4.61 | 2370 |

**Core type with common shielded cables
(Armoured Type, 0.6/1kV CU/PVC/CS/PVC/SWA/PVC)
(0.6/1kV TFR-CVVAV-AMS)**

| Nos. of Core | Conductor | | | Thickness | | Dia. of wire (nom.) | Thick. of Oversheath (nom.) | Overall Diameter (approx.) | Max. DC Conductor Resistance at 20°C | A.C. Voltage Test | Net weight (approx.) |
|--------------|-----------------|--------------|----------------------|-------------------|--------------------------|---------------------|-----------------------------|----------------------------|--------------------------------------|-------------------|----------------------|
| | Conductor Size | Construction | Outer Dia. (approx.) | Insulation (nom.) | Inner covering (approx.) | | | | | | |
| | mm ² | Nos./mm | mm | mm | mm | mm | mm | mm | Ω/km | V/5min | kg/km |
| 2 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 0.8 | 1.8 | 17 | 12.1 | 3500 | 365 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 0.8 | 1.8 | 18 | 7.41 | 3500 | 415 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 0.8 | 1.8 | 20 | 4.61 | 3500 | 524 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 1.25 | 1.8 | 23 | 3.08 | 3500 | 842 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 1.25 | 1.8 | 24 | 1.83 | 3500 | 911 |
| 3 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 0.8 | 1.8 | 17 | 12.1 | 3500 | 443 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 0.8 | 1.8 | 18 | 7.41 | 3500 | 464 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 1.25 | 1.8 | 22 | 4.61 | 3500 | 721 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 1.25 | 1.8 | 23 | 3.08 | 3500 | 842 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 1.25 | 1.8 | 25 | 1.83 | 3500 | 1063 |
| 4 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 0.8 | 1.8 | 18 | 12.1 | 3500 | 454 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 0.8 | 1.8 | 20 | 7.41 | 3500 | 529 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 1.25 | 1.8 | 23 | 4.61 | 3500 | 828 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 1.25 | 1.8 | 25 | 3.08 | 3500 | 975 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 1.25 | 1.8 | 27 | 1.83 | 3500 | 1257 |
| 5 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 0.8 | 1.8 | 19 | 12.1 | 3500 | 513 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.25 | 1.8 | 22 | 7.41 | 3500 | 726 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 1.25 | 1.8 | 25 | 4.61 | 3500 | 942 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 1.25 | 1.8 | 26 | 3.08 | 3500 | 1117 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 1.25 | 1.8 | 29 | 1.83 | 3500 | 1454 |
| 6 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 22 | 12.1 | 3500 | 688 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.25 | 1.8 | 23 | 7.41 | 3500 | 814 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 1.25 | 1.8 | 26 | 4.61 | 3500 | 1057 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 1.6 | 1.8 | 29 | 3.08 | 3500 | 1393 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 1.6 | 1.9 | 32 | 1.83 | 3500 | 1823 |

| Nos. of Core | Conductor | | | Thickness | | Dia. of wire (nom.) | Thick. of Oversheath (nom.) | Overall Diameter (approx.) | Max. DC Conductor Resistance at 20°C | A.C. Voltage Test | Net weight (approx.) |
|--------------|-----------------|--------------|----------------------|-------------------|--------------------------|---------------------|-----------------------------|----------------------------|--------------------------------------|-------------------|----------------------|
| | Conductor Size | Construction | Outer Dia. (approx.) | Insulation (nom.) | Inner covering (approx.) | | | | | | |
| | mm ² | Nos./mm | mm | mm | mm | | | | | | |
| 7 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 22 | 12.1 | 3500 | 708 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.25 | 1.8 | 23 | 7.41 | 3500 | 843 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 1.25 | 1.8 | 26 | 4.61 | 3500 | 1114 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 1.6 | 1.8 | 29 | 3.08 | 3500 | 1471 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 1.6 | 1.9 | 32 | 1.83 | 3500 | 1950 |
| 8 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 23 | 12.1 | 3500 | 783 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.25 | 1.8 | 24 | 7.41 | 3500 | 922 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 1.6 | 1.8 | 29 | 4.61 | 3500 | 1332 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 1.6 | 1.8 | 31 | 3.08 | 3500 | 1624 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 1.6 | 1.9 | 34 | 1.83 | 3500 | 2150 |
| 10 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 25 | 12.1 | 3500 | 913 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.8 | 28 | 7.41 | 3500 | 1220 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 1.6 | 1.8 | 32 | 4.61 | 3500 | 1614 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 1.6 | 1.9 | 34 | 3.08 | 3500 | 1984 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 2.0 | 2.0 | 40 | 1.83 | 3500 | 2854 |
| 12 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 26 | 12.1 | 3500 | 991 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.8 | 29 | 7.41 | 3500 | 1332 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 1.6 | 1.9 | 33 | 4.61 | 3500 | 1781 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 1.6 | 1.9 | 36 | 3.08 | 3500 | 2174 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.2 | 2.0 | 2.0 | 42 | 1.83 | 3500 | 2963 |
| 15 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.6 | 1.8 | 28 | 12.1 | 3500 | 1253 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.8 | 30 | 7.41 | 3500 | 1493 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 1.6 | 1.9 | 35 | 4.61 | 3500 | 2049 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 2.0 | 2.0 | 39 | 3.08 | 3500 | 2754 |
| 20 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.6 | 1.8 | 31 | 12.1 | 3500 | 1498 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.8 | 33 | 7.41 | 3500 | 1807 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 2.0 | 2.0 | 40 | 4.61 | 3500 | 2729 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.2 | 2.0 | 2.1 | 45 | 3.08 | 3500 | 3435 |
| 30 | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.6 | 1.9 | 35 | 12.1 | 3500 | 1935 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 2.0 | 1.9 | 39 | 7.41 | 3500 | 2621 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.2 | 2.5 | 2.2 | 48 | 4.61 | 3500 | 4069 |

**Pair/Triad type with individual/common shielded cables
(Non-armoured Type, 0.6/1kV CU/PVC/IS/CS/PVC)
(0.6/1kV TFR-CVV-I/CAMS)**

| Nos. of Core | Conductor | | | Thick. of Insulation (nom.) | Thickness of Oversheath (nom.) | Overall Diameter (approx.) | Max. DC Conductor Resistance at 20°C | Net weight (approx.) |
|--------------|-----------------|--------------|----------------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------|----------------------|
| | Conductor Size | Construction | Outer Dia. (approx.) | | | | | |
| | mm ² | Nos./mm | mm | | | | | |
| 1P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 12 | 12.1 | 147 |
| 2P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 18 | 12.3 | 300 |
| 3P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 20 | 12.3 | 365 |
| 4P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 22 | 12.3 | 442 |
| 5P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 24 | 12.3 | 518 |
| 6P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 26 | 12.3 | 592 |
| 7P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 26 | 12.3 | 615 |
| 8P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 28 | 12.3 | 699 |
| 10P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 33 | 12.3 | 892 |

| Nos. of Core | Conductor | | | Thick. of Insulation (nom.) | Thickness of Oversheath (nom.) | Overall Diameter (approx.) | Max. DC Conductor Resistance at 20°C | Net weight (approx.) |
|--------------|-----------------|--------------|---------------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------|----------------------|
| | Conductor Size | Construction | Outer Dia.(approx.) | | | | | |
| | mm ² | Nos./mm | mm | | | | | |
| 12P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 34 | 12.3 | 1012 |
| 15P | 1.5 | 7/0.53 | 1.59 | 0.8 | 2.0 | 38 | 12.3 | 1247 |
| 20P | 1.5 | 7/0.53 | 1.59 | 0.8 | 2.1 | 42 | 12.3 | 1586 |
| 30P | 1.5 | 7/0.53 | 1.59 | 0.8 | 2.3 | 52 | 12.3 | 2316 |
| 1P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 13 | 7.41 | 180 |
| 2P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 20 | 7.56 | 365 |
| 3P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 22 | 7.56 | 361 |
| 4P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 24 | 7.56 | 555 |
| 5P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 26 | 7.56 | 651 |
| 6P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 29 | 7.56 | 779 |
| 7P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 29 | 7.56 | 793 |
| 8P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 31 | 7.56 | 921 |
| 10P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.9 | 38 | 7.56 | 1175 |
| 12P | 2.5 | 7/0.67 | 2.01 | 0.8 | 2.0 | 39 | 7.56 | 1356 |
| 15P | 2.5 | 7/0.67 | 2.01 | 0.8 | 2.1 | 42 | 7.56 | 1643 |
| 20P | 2.5 | 7/0.67 | 2.01 | 0.8 | 2.2 | 47 | 7.56 | 2072 |
| 30P | 2.5 | 7/0.67 | 2.01 | 0.8 | 2.5 | 58 | 7.56 | 3101 |
| 1T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 13 | 12.1 | 175 |
| 2T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 19 | 12.3 | 356 |
| 3T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 21 | 12.3 | 454 |
| 4T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 23 | 12.3 | 561 |
| 5T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 25 | 12.3 | 651 |
| 6T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 28 | 12.3 | 741 |
| 7T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 28 | 12.3 | 807 |
| 8T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.8 | 30 | 12.3 | 920 |
| 10T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.9 | 36 | 12.3 | 1191 |
| 12T | 1.5 | 7/0.53 | 1.59 | 0.8 | 2.0 | 37 | 12.3 | 1380 |
| 15T | 1.5 | 7/0.53 | 1.59 | 0.8 | 2.1 | 40 | 12.3 | 1676 |
| 20T | 1.5 | 7/0.53 | 1.59 | 0.8 | 2.3 | 46 | 12.3 | 2139 |
| 30T | 1.5 | 7/0.53 | 1.59 | 0.8 | 2.5 | 56 | 12.3 | 3172 |
| 1T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 13 | 7.41 | 212 |
| 2T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 21 | 7.56 | 454 |
| 3T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 23 | 7.56 | 580 |
| 4T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 26 | 7.56 | 729 |
| 5T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 28 | 7.56 | 848 |
| 6T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 31 | 7.56 | 1031 |
| 7T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.8 | 31 | 7.56 | 1110 |
| 8T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.9 | 33 | 7.56 | 1283 |
| 10T | 2.5 | 7/0.67 | 2.01 | 0.8 | 2.1 | 40 | 7.56 | 1596 |
| 12T | 2.5 | 7/0.67 | 2.01 | 0.8 | 2.1 | 41 | 7.56 | 1843 |
| 15T | 2.5 | | 2.01 | 0.8 | 2.2 | 45 | 7.56 | 2250 |
| 20T | 2.5 | 7/0.67 | 2.01 | 0.8 | 2.4 | 51 | 7.56 | 2875 |
| 30T | 2.5 | 7/0.67 | 2.01 | 0.8 | 2.7 | 62 | 7.56 | 4290 |

**Pair/Triad type with individual/common shielded cables
(Armoured Type, 0.6/1kV CU/PVC/IS/CS/PVC/SWA/PVC)
(0.6/1kV TFR-CVVAV-I/CAMS)**

| Nos. of Core | Conductor | | | Thickness | | Dia. of Wire (nom.) | Thick. of Oversheath (nom.) | Overall Diameter (approx.) | Max. DC Conductor Resistance at 20°C | Net weight (approx.) |
|--------------|-----------------|--------------|----------------------|-------------------|--------------------------|---------------------|-----------------------------|----------------------------|--------------------------------------|----------------------|
| | Conductor Size | Construction | Outer Dia. (approx.) | Insulation (nom.) | Inner Covering (approx.) | | | | | |
| | mm ² | Nos./mm | mm | mm | mm | | | | | |
| 1P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 0.8 | 1.8 | 17 | 12.1 | 368 |
| 2P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 24 | 12.3 | 785 |
| 3P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 26 | 12.3 | 900 |
| 4P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 28 | 12.3 | 1038 |
| 5P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 30 | 12.3 | 1165 |
| 6P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.6 | 1.8 | 33 | 12.3 | 1463 |
| 7P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.6 | 1.8 | 33 | 12.3 | 1484 |
| 8P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.6 | 1.9 | 36 | 12.3 | 1664 |
| 10P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 2.0 | 2.0 | 42 | 12.3 | 2384 |
| 12P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 2.0 | 2.0 | 43 | 12.3 | 2508 |
| 15P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 2.5 | 2.2 | 50 | 12.3 | 3218 |
| 20P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 2.5 | 2.3 | 53 | 12.3 | 3797 |
| 30P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 3.15 | 2.8 | 68 | 12.3 | 6808 |
| 1P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 0.8 | 1.8 | 18 | 7.41 | 422 |
| 2P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.25 | 1.8 | 26 | 7.56 | 902 |
| 3P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.25 | 1.8 | 28 | 7.56 | 1056 |
| 4P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.25 | 1.8 | 30 | 7.56 | 1216 |
| 5P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.8 | 33 | 7.56 | 1541 |
| 6P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.9 | 36 | 7.56 | 1763 |
| 7P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.9 | 36 | 7.56 | 1778 |
| 8P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.9 | 39 | 7.56 | 1986 |
| 10P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.2 | 2.0 | 2.1 | 47 | 7.56 | 2800 |
| 12P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.2 | 2.0 | 2.2 | 48 | 7.56 | 3015 |
| 15P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.2 | 2.5 | 2.3 | 52 | 7.56 | 3851 |
| 20P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.2 | 2.5 | 2.5 | 58 | 7.56 | 4637 |
| 30P | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.2 | 3.15 | 2.8 | 71 | 7.56 | 7008 |
| 1T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 0.8 | 1.8 | 17 | 12.1 | 407 |
| 2T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 25 | 12.3 | 880 |
| 3T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 27 | 12.3 | 1029 |
| 4T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.25 | 1.8 | 29 | 12.3 | 1197 |
| 5T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.6 | 1.8 | 32 | 12.3 | 1503 |
| 6T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.6 | 1.8 | 35 | 12.3 | 1671 |
| 7T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.6 | 1.8 | 35 | 12.3 | 1737 |
| 8T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 1.6 | 1.9 | 37 | 12.3 | 1946 |
| 10T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 2.0 | 2.1 | 45 | 12.3 | 2750 |
| 12T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 2.0 | 2.1 | 46 | 12.3 | 2957 |
| 15T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 2.0 | 2.2 | 49 | 12.3 | 3407 |
| 20T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 2.5 | 2.4 | 56 | 12.3 | 4561 |
| 30T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 3.15 | 2.8 | 68 | 12.3 | 6806 |
| 1T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 0.8 | 1.8 | 18 | 7.41 | 451 |
| 2T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.25 | 1.8 | 27 | 7.56 | 1027 |
| 3T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.25 | 1.8 | 29 | 7.56 | 1216 |
| 4T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.25 | 1.8 | 33 | 7.56 | 1580 |
| 5T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.8 | 35 | 7.56 | 1811 |
| 6T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.9 | 38 | 7.56 | 2076 |
| 7T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.0 | 1.6 | 1.9 | 38 | 7.56 | 2155 |
| 8T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.2 | 2.0 | 2.0 | 42 | 7.56 | 2703 |
| 10T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.2 | 2.5 | 2.2 | 50 | 7.56 | 3645 |
| 12T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.2 | 2.5 | 2.3 | 52 | 7.56 | 4005 |
| 15T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.2 | 2.5 | 2.4 | 55 | 7.56 | 4604 |
| 20T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.4 | 3.15 | 2.6 | 63 | 7.56 | 6179 |
| 30T | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.6 | 3.15 | 3.0 | 76 | 7.56 | 8438 |