

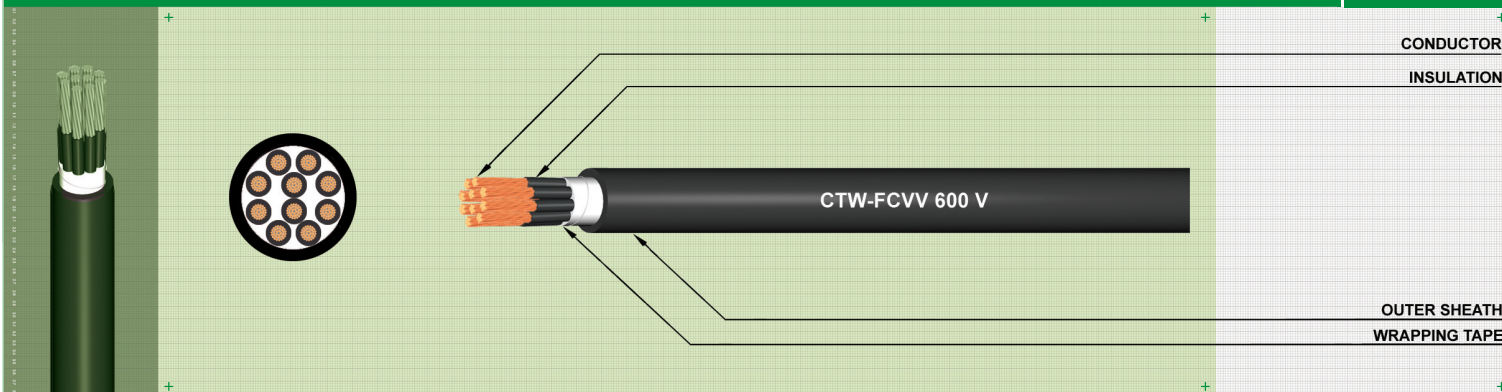


CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-FCVV 600 V (FLEXIBLE CONDUCTOR)

: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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APPLICATION

Supervisory electrical equipment, station control circuits. Out door, suitable installation in the wet or dry cable trenches.

CONSTRUCTION

Conductor : Concentric bunching (Flexible) annealed copper conductor.
 Insulation : Polyvinyl chloride (PVC) : Black colour with marking number.
 Filler : PVC Rod and/or Polypropylene (Nonhygroscopic material).
 Wrapping Tape : Polyester (Mylar) tape.
 Outer Sheath : Black polyvinyl chloride (PVC) .

*** Colours sequence for circuit identification & other colours for outer sheath to special order.

REFERENCE STANDARD

ICEA S-61-402 (NEMA WC 5).
 *Testing Voltage : 1.5, 3.0, 3.5 kV (By Conductor Size).

CLASSIFICATION

Maximum conductor temperature 75°C,
 Circuit voltage does not exceed 600 volts.

OPTIONAL

A Special FR-PVC flame retardant sheath can be supplied.

| CTW - FCVV 600V (ICEA S-61-402) | | Conductor | | | Thickness of Insulation | Thickness of Outer Sheath | Overall diameter (Approx.) | Cable weight (Approx.) | Maximum conductor resistance at 20 °C | Minimum insulation resistance at 15.6 °C | Standard packing |
|------------------------------------|----------------|------------------------------------|-----------------------------------|-----------------------|-------------------------------|------------------------------------|----------------------------------|------------------------------|--|---|---------------------|
| PRODUCT CODE | No. of Core | Nominal Cross-sectional area | Number and diameter of wire | Diameter (Approx.) | | | | | | | |
| | | mm ² | No. / mm | mm | mm | mm | kg/km | Ω/km | MΩ-km | m/R | |
| C18026005 | 2 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.14 | 7.5 | 80 | 39.00 | 272 | 1,000 |
| C18026075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.14 | 8.0 | 90 | 26.00 | 239 | 1,000 |
| C18026001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.14 | 8.5 | 100 | 19.50 | 217 | 1,000 |
| C18026501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.14 | 10.5 | 150 | 13.30 | 243 | 1,000 |
| C18026502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 1.14 | 11.5 | 190 | 7.98 | 205 | 1,000 |
| C18026004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 1.14 | 12.5 | 240 | 4.95 | 173 | 1,000 |
| C18026006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 1.52 | 14.5 | 330 | 3.30 | 149 | 1,000 |
| C18026010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 1.52 | 18.0 | 520 | 1.91 | 149 | 1,000 |
| C18036005 | 3 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.14 | 8.0 | 90 | 39.00 | 272 | 1,000 |
| C18036075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.14 | 8.5 | 100 | 26.00 | 239 | 1,000 |
| C18036001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.14 | 9.0 | 120 | 19.50 | 217 | 1,000 |
| C18036501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.14 | 11.0 | 180 | 13.30 | 243 | 1,000 |
| C18036502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 1.14 | 12.0 | 230 | 7.98 | 205 | 1,000 |
| C18036004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 1.14 | 14.5 | 320 | 4.95 | 173 | 1,000 |
| C18036006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 1.52 | 15.5 | 410 | 3.30 | 149 | 1,000 |
| C18036010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 1.52 | 19.5 | 650 | 1.91 | 149 | 1,000 |



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: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

| CTW - FCVV 600V (ICEA S-61-402) | Conductor | | | Thickness of Insulation | Thickness of Outer Sheath | Overall diameter (Approx.) | Cable weight (Approx.) | Maximum conductor resistance at 20 °C | Minimum insulation resistance at 15.6 °C | Standard packing | |
|---------------------------------|------------------------------|-----------------------------|--------------------|-------------------------|---------------------------|----------------------------|------------------------|---------------------------------------|--|------------------|-------|
| | Nominal Cross-sectional area | Number and diameter of wire | Diameter (Approx.) | | | | | | | | |
| PRODUCT CODE | No. of Core | mm ² | No. / mm | mm | mm | mm | kg/km | Ω/km | MΩ-km | m/R | |
| C18046005 | 4 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.14 | 9.0 | 110 | 39.00 | 272 | 1,000 |
| C18046075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.14 | 9.5 | 130 | 26.00 | 239 | 1,000 |
| C18046001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.14 | 10.0 | 140 | 19.50 | 217 | 1,000 |
| C18046501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.14 | 12.5 | 220 | 13.30 | 243 | 1,000 |
| C18046502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 1.52 | 14.0 | 310 | 7.98 | 205 | 1,000 |
| C18046004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 1.52 | 15.5 | 400 | 4.95 | 173 | 1,000 |
| C18046006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 1.52 | 17.0 | 510 | 3.30 | 149 | 1,000 |
| C18046010 | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 22.5 | 870 | 1.91 | 149 | 1,000 | |
| C18056005 | 5 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.14 | 9.5 | 120 | 39.00 | 272 | 1,000 |
| C18056075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.14 | 10.0 | 140 | 26.00 | 239 | 1,000 |
| C18056001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.14 | 10.5 | 160 | 19.50 | 217 | 1,000 |
| C18056501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.52 | 14.5 | 280 | 13.30 | 243 | 1,000 |
| C18056502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 1.52 | 15.5 | 360 | 7.98 | 205 | 1,000 |
| C18056004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 1.52 | 17.0 | 470 | 4.95 | 173 | 1,000 |
| C18056006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 1.52 | 18.5 | 600 | 3.30 | 149 | 1,000 |
| C18056010 | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 24.5 | 1,020 | 1.91 | 149 | 1,000 | |
| C18066005 | 6 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.14 | 10.5 | 140 | 39.00 | 272 | 1,000 |
| C18066075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.14 | 11.0 | 170 | 26.00 | 239 | 1,000 |
| C18066001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.14 | 11.5 | 200 | 19.50 | 217 | 1,000 |
| C18066501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.52 | 15.5 | 330 | 13.30 | 243 | 1,000 |
| C18066502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 1.52 | 17.0 | 430 | 7.98 | 205 | 1,000 |
| C18066004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 1.52 | 18.5 | 560 | 4.95 | 173 | 1,000 |
| C18066006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 1.52 | 20.5 | 720 | 3.30 | 149 | 1,000 |
| C18066010 | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 26.5 | 1,220 | 1.91 | 149 | 1,000 | |
| C18076005 | 7 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.14 | 10.5 | 150 | 39.00 | 272 | 1,000 |
| C18076075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.14 | 11.0 | 180 | 26.00 | 239 | 1,000 |
| C18076001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.14 | 11.5 | 200 | 19.50 | 217 | 1,000 |
| C18076501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.52 | 15.5 | 340 | 13.30 | 243 | 1,000 |
| C18076502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 1.52 | 17.0 | 450 | 7.98 | 205 | 1,000 |
| C18076004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 1.52 | 18.5 | 590 | 4.95 | 173 | 1,000 |
| C18076006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 1.52 | 20.5 | 770 | 3.30 | 149 | 1,000 |
| C18076010 | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 26.5 | 1,300 | 1.91 | 149 | 1,000 | |



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: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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| CTW - FCVV 600V (ICEA S-61-402) | | Conductor | | | Thickness of Insulation | Thickness of Outer Sheath | Overall diameter (Approx.) | Cable weight (Approx.) | Maximum conductor resistance at 20 °C | Minimum insulation resistance at 15.6 °C | Standard packing |
|------------------------------------|----------------|------------------------------------|-----------------------------------|-----------------------|-------------------------------|------------------------------------|----------------------------------|------------------------------|--|---|---------------------|
| PRODUCT CODE | No. of Core | Nominal Cross-sectional area | Number and diameter of wire | Diameter (Approx.) | | | | | | | |
| | | mm ² | No. / mm | mm | mm | mm | kg/km | Ω/km | MΩ-km | m/R | |
| C18086005 | 8 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.14 | 11 | 170 | 39.00 | 272 | 1,000 |
| C18086075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.14 | 12.0 | 200 | 26.00 | 239 | 1,000 |
| C18086001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.14 | 12.5 | 240 | 19.50 | 217 | 1,000 |
| C18086501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.52 | 16.5 | 400 | 13.30 | 243 | 1,000 |
| C18086502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 1.52 | 18.5 | 520 | 7.98 | 205 | 1,000 |
| C18086004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 1.52 | 20.0 | 680 | 4.95 | 173 | 1,000 |
| C18086006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 23.0 | 950 | 3.30 | 149 | 1,000 |
| C18086010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 29.0 | 1,500 | 1.91 | 149 | 1,000 |
| C18096005 | 9 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.14 | 12.0 | 190 | 39.00 | 272 | 1,000 |
| C18096075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.14 | 13.0 | 230 | 26.00 | 239 | 1,000 |
| C18096001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 14.0 | 290 | 19.50 | 217 | 1,000 |
| C18096501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.52 | 18.0 | 450 | 13.30 | 243 | 1,000 |
| C18096502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 1.52 | 20.0 | 580 | 7.98 | 205 | 1,000 |
| C18096004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 23.0 | 830 | 4.95 | 173 | 1,000 |
| C18096006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 25.0 | 1,070 | 3.30 | 149 | 1,000 |
| C18096010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 31.5 | 1,710 | 1.91 | 149 | 1,000 |
| C18106005 | 10 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 14.0 | 240 | 39.00 | 272 | 1,000 |
| C18106075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 14.5 | 290 | 26.00 | 239 | 1,000 |
| C18106001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 15.5 | 330 | 19.50 | 217 | 1,000 |
| C18106501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.52 | 19.5 | 510 | 13.30 | 243 | 1,000 |
| C18106502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 22.5 | 720 | 7.98 | 205 | 1,000 |
| C18106004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 25.0 | 940 | 4.95 | 173 | 1,000 |
| C18106006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 27.0 | 1,210 | 3.30 | 149 | 1,000 |
| C18106010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 34.5 | 1,930 | 1.91 | 149 | 500 |
| C18116005 | 11 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 14 | 250 | 39.00 | 272 | 1,000 |
| C18116075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 14.5 | 300 | 26.00 | 239 | 1,000 |
| C18116001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 15.5 | 350 | 19.50 | 217 | 1,000 |
| C18116501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.52 | 19.5 | 540 | 13.30 | 243 | 1,000 |
| C18116502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 22.5 | 750 | 7.98 | 205 | 1,000 |
| C18116004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 25.0 | 990 | 4.95 | 173 | 1,000 |
| C18116006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 27.0 | 1,290 | 3.30 | 149 | 1,000 |
| C18116010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 34.5 | 2,060 | 1.91 | 149 | 500 |



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: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

| CTW - FCVV 600V (ICEA S-61-402) | | Conductor | | | Thickness of Insulation | Thickness of Outer Sheath | Overall diameter (Approx.) | Cable weight (Approx.) | Maximum conductor resistance at 20 °C | Minimum insulation resistance at 15.6 °C | Standard packing |
|------------------------------------|----------------|------------------------------------|-----------------------------------|-----------------------|-------------------------------|------------------------------------|----------------------------------|------------------------------|--|---|---------------------|
| PRODUCT CODE | No. of Core | Nominal Cross-sectional area | Number and diameter of wire | Diameter (Approx.) | | | | | | | |
| | | mm ² | No. / mm | mm | mm | mm | kg/km | Ω/km | MΩ-km | m/R | |
| C18126005 | 12 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 14.0 | 270 | 39.00 | 272 | 1,000 |
| C18126075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 15.0 | 320 | 26.00 | 239 | 1,000 |
| C18126001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 16.0 | 370 | 19.50 | 217 | 1,000 |
| C18126501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.52 | 20.5 | 570 | 13.30 | 243 | 1,000 |
| C18126502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 23.5 | 800 | 7.98 | 205 | 1,000 |
| C18126004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 25.5 | 1,060 | 4.95 | 173 | 1,000 |
| C18126006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 28.0 | 1,382 | 3.30 | 149 | 1,000 |
| C18126010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 35.5 | 2,210 | 1.91 | 149 | 500 |
| C18136005 | 13 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 14.5 | 280 | 39.00 | 272 | 1,000 |
| C18136075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 15.5 | 340 | 26.00 | 239 | 1,000 |
| C18136001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 16.0 | 390 | 19.50 | 217 | 1,000 |
| C18136501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 1.52 | 20.5 | 600 | 13.30 | 243 | 1,000 |
| C18136502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 23.5 | 850 | 7.98 | 205 | 1,000 |
| C18136004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 26.0 | 1,120 | 4.95 | 173 | 1,000 |
| C18136006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 28.5 | 1,460 | 3.30 | 149 | 1,000 |
| C18136010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 36.0 | 2,350 | 1.91 | 149 | 500 |
| C18146005 | 14 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 15.0 | 300 | 39.00 | 272 | 1,000 |
| C18146075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 16.0 | 360 | 26.00 | 239 | 1,000 |
| C18146001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 16.5 | 410 | 19.50 | 217 | 1,000 |
| C18146501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 22.5 | 700 | 13.30 | 243 | 1,000 |
| C18146502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 24.5 | 910 | 7.98 | 205 | 1,000 |
| C18146004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 27.0 | 1,200 | 4.95 | 173 | 1,000 |
| C18146006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 29.5 | 1,570 | 3.30 | 149 | 1,000 |
| C18146010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 37.5 | 2,530 | 1.91 | 149 | 500 |
| C18156005 | 15 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 15.5 | 320 | 39.00 | 272 | 1,000 |
| C18156075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 16.5 | 380 | 26.00 | 239 | 1,000 |
| C18156001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 17.0 | 440 | 19.50 | 217 | 1,000 |
| C18156501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 23.0 | 740 | 13.30 | 243 | 1,000 |
| C18156502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 25.0 | 960 | 7.98 | 205 | 1,000 |
| C18156004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 27.5 | 1,270 | 4.95 | 173 | 1,000 |
| C18156006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 30.5 | 1,670 | 3.30 | 149 | 1,000 |
| C18156010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 38.5 | 2,690 | 1.91 | 149 | 500 |



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: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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| CTW - FCVV 600V (ICEA S-61-402) | | Conductor | | | Thickness of Insulation | Thickness of Outer Sheath | Overall diameter (Approx.) | Cable weight (Approx.) | Maximum conductor resistance at 20 °C | Minimum insulation resistance at 15.6 °C | Standard packing |
|------------------------------------|----------------|------------------------------------|-----------------------------------|-----------------------|-------------------------------|------------------------------------|----------------------------------|------------------------------|--|---|---------------------|
| PRODUCT CODE | No. of Core | Nominal Cross-sectional area | Number and diameter of wire | Diameter (Approx.) | | | | | | | |
| | | mm ² | No. / mm | mm | mm | mm | kg/km | Ω/km | MΩ-km | m/R | |
| C18166005 | 16 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 15.5 | 330 | 39.00 | 272 | 1,000 |
| C18166075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 16.5 | 400 | 26.00 | 239 | 1,000 |
| C18166001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 17.5 | 460 | 19.50 | 217 | 1,000 |
| C18166501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 23.5 | 780 | 13.30 | 243 | 1,000 |
| C18166502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 26.0 | 1,010 | 7.98 | 205 | 1,000 |
| C18166004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 28.5 | 1,340 | 4.95 | 173 | 1,000 |
| C18166006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 31.5 | 1,760 | 3.30 | 149 | 1,000 |
| C18166010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 39.5 | 2,830 | 1.91 | 149 | 500 |
| C18176005 | 17 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 16.0 | 350 | 39.00 | 272 | 1,000 |
| C18176075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 17.0 | 420 | 26.00 | 239 | 1,000 |
| C18176001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 18.0 | 480 | 19.50 | 217 | 1,000 |
| C18176501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 24.0 | 820 | 13.30 | 243 | 1,000 |
| C18176502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 26.5 | 1,070 | 7.98 | 205 | 1,000 |
| C18176004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 29.5 | 1,420 | 4.95 | 173 | 1,000 |
| C18176006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 32.0 | 1,860 | 3.30 | 149 | 1,000 |
| C18176010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 41.0 | 3,000 | 1.91 | 149 | 500 |
| C18186005 | 18 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 16.5 | 370 | 39.00 | 272 | 1,000 |
| C18186075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 17.5 | 440 | 26.00 | 239 | 1,000 |
| C18186001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 18.5 | 510 | 19.50 | 217 | 1,000 |
| C18186501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 25.0 | 860 | 13.30 | 243 | 1,000 |
| C18186502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 27.0 | 1,130 | 7.98 | 205 | 1,000 |
| C18186004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 30.0 | 1,500 | 4.95 | 173 | 1,000 |
| C18186006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 33.0 | 1,970 | 3.30 | 149 | 500 |
| C18186010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 42.0 | 3,180 | 1.91 | 149 | 500 |
| C18196005 | 19 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 16.5 | 370 | 39.00 | 272 | 1,000 |
| C18196075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 17.5 | 450 | 26.00 | 239 | 1,000 |
| C18196001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 18.5 | 520 | 19.50 | 217 | 1,000 |
| C18196501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 25.0 | 880 | 13.30 | 243 | 1,000 |
| C18196502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 27.0 | 1,150 | 7.98 | 205 | 1,000 |
| C18196004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 30.0 | 1,530 | 4.95 | 173 | 1,000 |
| C18196006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 33.0 | 2,010 | 3.30 | 149 | 500 |
| C18196010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.03 | 42.0 | 3,260 | 1.91 | 149 | 500 |



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-FCVV 600 V (FLEXIBLE CONDUCTOR)**

: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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| CTW - FCVV 600V (ICEA S-61-402) | | Conductor | | | Thickness of Insulation | Thickness of Outer Sheath | Overall diameter (Approx.) | Cable weight (Approx.) | Maximum conductor resistance at 20 °C | Minimum insulation resistance at 15.6 °C | Standard packing |
|------------------------------------|----------------|------------------------------------|-----------------------------------|-----------------------|-------------------------------|------------------------------------|----------------------------------|------------------------------|--|---|---------------------|
| | | Nominal Cross-sectional area | Number and diameter of wire | Diameter (Approx.) | | | | | | | |
| PRODUCT CODE | No. of Core | mm ² | No. / mm | mm | mm | mm | kg/km | Ω/km | MΩ-km | m/R | |
| C18206005 | 20 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 17.0 | 390 | 39.00 | 272 | 1,000 |
| C18206075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 18.0 | 470 | 26.00 | 239 | 1,000 |
| C18206001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 19.0 | 550 | 19.50 | 217 | 1,000 |
| C18206501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 25.5 | 920 | 13.30 | 243 | 1,000 |
| C18206502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 28.0 | 1,210 | 7.98 | 205 | 1,000 |
| C18206004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 31.0 | 1,610 | 4.95 | 173 | 1,000 |
| C18206006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 34.0 | 2,120 | 3.30 | 149 | 500 |
| C18206010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 44.5 | 3,590 | 1.91 | 149 | 500 |
| C18216005 | 21 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 17.5 | 410 | 39.00 | 272 | 1,000 |
| C18216075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 18.5 | 490 | 26.00 | 239 | 1,000 |
| C18216001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 19.5 | 570 | 19.50 | 217 | 1,000 |
| C18216501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 26.0 | 960 | 13.30 | 243 | 1,000 |
| C18216502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 28.5 | 1,260 | 7.98 | 205 | 1,000 |
| C18216004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 31.5 | 1,680 | 4.95 | 173 | 1,000 |
| C18216006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 35.0 | 2,220 | 3.30 | 149 | 500 |
| C18216010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 45.5 | 3,760 | 1.91 | 149 | 500 |
| C18226005 | 22 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 18.0 | 430 | 39.00 | 272 | 1,000 |
| C18226075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 19.0 | 510 | 26.00 | 239 | 1,000 |
| C18226001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 20.0 | 600 | 19.50 | 217 | 1,000 |
| C18226501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 27.0 | 1,000 | 13.30 | 243 | 1,000 |
| C18226502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 29.5 | 1,320 | 7.98 | 205 | 1,000 |
| C18226004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 32.5 | 1,770 | 4.95 | 173 | 1,000 |
| C18226006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 36.0 | 2,330 | 3.30 | 149 | 500 |
| C18226010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 47.0 | 3,940 | 1.91 | 149 | 500 |
| C18236005 | 23 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 18.0 | 440 | 39.00 | 272 | 1,000 |
| C18236075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 19.5 | 530 | 26.00 | 239 | 1,000 |
| C18236001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 1.52 | 20.5 | 620 | 19.50 | 217 | 1,000 |
| C18236501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 27.5 | 1,040 | 13.30 | 243 | 1,000 |
| C18236502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 30.0 | 1,380 | 7.98 | 205 | 1,000 |
| C18236004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 33.0 | 1,840 | 4.95 | 173 | 500 |
| C18236006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 36.5 | 2,430 | 3.30 | 149 | 500 |
| C18236010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 48.0 | 4,110 | 1.91 | 149 | 500 |



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-FCVV 600 V (FLEXIBLE CONDUCTOR)**

: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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| CTW - FCVV 600V (ICEA S-61-402) | | Conductor | | | Thickness of Insulation | Thickness of Outer Sheath | Overall diameter (Approx.) | Cable weight (Approx.) | Maximum conductor resistance at 20 °C | Minimum insulation resistance at 15.6 °C | Standard packing |
|------------------------------------|----------------|------------------------------------|-----------------------------------|-----------------------|-------------------------------|------------------------------------|----------------------------------|------------------------------|--|---|---------------------|
| | | Nominal Cross-sectional area | Number and diameter of wire | Diameter (Approx.) | | | | | | | |
| PRODUCT CODE | No. of Core | mm ² | No. / mm | mm | mm | mm | kg/km | Ω/km | MΩ-km | m/R | |
| C18246005 | 24 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 19.0 | 480 | 39.00 | 272 | 1,000 |
| C18246075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 20.5 | 580 | 26.00 | 239 | 1,000 |
| C18246001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 2.03 | 22.5 | 720 | 19.50 | 217 | 1,000 |
| C18246501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 29.0 | 1,130 | 13.30 | 243 | 1,000 |
| C18246502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 32.0 | 1,480 | 7.98 | 205 | 1,000 |
| C18246004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 35.0 | 1,980 | 4.95 | 173 | 500 |
| C18246006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 39.0 | 2,600 | 3.30 | 149 | 500 |
| C18246010 | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 51.0 | 4,400 | 1.91 | 149 | 500 | |
| C18256005 | 25 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 19.0 | 490 | 39.00 | 272 | 1,000 |
| C18256075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 20.5 | 590 | 26.00 | 239 | 1,000 |
| C18256001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 2.03 | 22.5 | 740 | 19.50 | 217 | 1,000 |
| C18256501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 29.0 | 1,150 | 13.30 | 243 | 1,000 |
| C18256502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 32.0 | 1,520 | 7.98 | 205 | 1,000 |
| C18256004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 35.0 | 2,030 | 4.95 | 173 | 500 |
| C18256006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 39.0 | 2,670 | 3.30 | 149 | 500 |
| C18256010 | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 51.0 | 4,530 | 1.91 | 149 | 500 | |
| C18266005 | 26 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 19.0 | 500 | 39.00 | 272 | 1,000 |
| C18266075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 1.52 | 20.5 | 600 | 26.00 | 239 | 1,000 |
| C18266001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 2.03 | 22.5 | 760 | 19.50 | 217 | 1,000 |
| C18266501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 29.0 | 1,180 | 13.30 | 243 | 1,000 |
| C18266502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 32.0 | 1,560 | 7.98 | 205 | 1,000 |
| C18266004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 35.0 | 2,080 | 4.95 | 173 | 500 |
| C18266006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 39.0 | 2,750 | 3.30 | 149 | 500 |
| C18266010 | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 51.0 | 4,650 | 1.91 | 149 | 500 | |
| C18276005 | 27 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 19.5 | 510 | 39.00 | 272 | 1,000 |
| C18276075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 2.03 | 22.0 | 670 | 26.00 | 239 | 1,000 |
| C18276001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 2.03 | 23.0 | 780 | 19.50 | 217 | 1,000 |
| C18276501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 29.5 | 1,220 | 13.30 | 243 | 1,000 |
| C18276502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 32.0 | 1,610 | 7.98 | 205 | 1,000 |
| C18276004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 36.0 | 2,150 | 4.95 | 173 | 500 |
| C18276006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 39.5 | 2,840 | 3.30 | 149 | 500 |
| C18276010 | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 52.0 | 4,810 | 1.91 | 149 | 500 | |



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-FCVV 600 V (FLEXIBLE CONDUCTOR)

: 600 V 75°C PVC INSULATED AND SHEATHED CONTROL CABLE NON-SHIELD

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| CTW - FCVV 600V (ICEA S-61-402) | | Conductor | | | Thickness of Insulation | Thickness of Outer Sheath | Overall diameter (Approx.) | Cable weight (Approx.) | Maximum conductor resistance at 20 °C | Minimum insulation resistance at 15.6 °C | Standard packing |
|------------------------------------|----------------|------------------------------------|-----------------------------------|-----------------------|-------------------------------|------------------------------------|----------------------------------|------------------------------|--|---|---------------------|
| PRODUCT CODE | No. of Core | Nominal Cross-sectional area | Number and diameter of wire | Diameter (Approx.) | | | | | | | |
| | | mm ² | No. / mm | mm | mm | mm | kg/km | Ω/km | MΩ-km | m/R | |
| C18286005 | 28 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 19.5 | 520 | 39.00 | 272 | 1,000 |
| C18286075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 2.03 | 22.0 | 690 | 26.00 | 239 | 1,000 |
| C18286001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 2.03 | 23.0 | 800 | 19.50 | 217 | 1,000 |
| C18286501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 29.5 | 1,250 | 13.30 | 243 | 1,000 |
| C18286502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 32.5 | 1,650 | 7.98 | 205 | 1,000 |
| C18286004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 36.0 | 2,210 | 4.95 | 173 | 500 |
| C18286006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 39.5 | 2,920 | 3.30 | 149 | 500 |
| C18286010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 53.0 | 4,940 | 1.91 | 149 | 500 |
| C18296005 | 29 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 20.0 | 540 | 39.00 | 272 | 1,000 |
| C18296075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 2.03 | 22.0 | 710 | 26.00 | 239 | 1,000 |
| C18296001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 2.03 | 23.5 | 820 | 19.50 | 217 | 1,000 |
| C18296501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 30.0 | 1,280 | 13.30 | 243 | 1,000 |
| C18296502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 33.0 | 1,700 | 7.98 | 205 | 1,000 |
| C18296004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 36.5 | 2,280 | 4.95 | 173 | 500 |
| C18296006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 40.0 | 3,010 | 3.30 | 149 | 500 |
| C18296010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 52.5 | 5,100 | 1.91 | 149 | 500 |
| C18306005 | 30 | 0.5 | 16 / 0.20 | 0.95 | 0.76 | 1.52 | 20.5 | 550 | 39.00 | 272 | 1,000 |
| C18306075 | | 0.75 | 24 / 0.20 | 1.15 | 0.76 | 2.03 | 22.5 | 730 | 26.00 | 239 | 1,000 |
| C18306001 | | 1.0 | 32 / 0.20 | 1.35 | 0.76 | 2.03 | 24.0 | 840 | 19.50 | 217 | 1,000 |
| C18306501 | | 1.5 | 30 / 0.25 | 1.65 | 1.14 | 2.03 | 30.5 | 1,320 | 13.30 | 243 | 1,000 |
| C18306502 | | 2.5 | 50 / 0.25 | 2.15 | 1.14 | 2.03 | 33.5 | 1,750 | 7.98 | 205 | 1,000 |
| C18306004 | | 4 | 56 / 0.30 | 2.65 | 1.14 | 2.03 | 37.5 | 2,350 | 4.95 | 173 | 500 |
| C18306006 | | 6 | 84 / 0.30 | 3.40 | 1.14 | 2.03 | 41.0 | 3,100 | 3.30 | 149 | 500 |
| C18306010 | | 10 | 80 / 0.40 | 4.30 | 1.52 | 2.79 | 54.0 | 5,250 | 1.91 | 149 | 500 |