

制御用途
Control application

低電圧指令適合 The products are conformed with the EC Low Voltage Directive 2014/35/EU.

リスティング製品

CEマーキング

CCC認証品

AWM製品

可動用リスティング製品

可動用AWM製品

電気用品安全法

IEC75-OF/2464

耐熱耐油性ビニルケーブル Heat and Oil Resistant PVC Cable



用途 Use

- 産業機器・電子機器の制御及び電源用
Control or power supply use for electrical equipment of industrial machines.
- 耐油環境での配線
Wiring under oil environment

特長 Characteristic

アメリカ(UL)、カナダ(CSA)、ヨーロッパ(CE)、日本(PSE)の規格に適合し、且つ耐熱・耐油・難燃・柔軟性に優れた制御用ケーブル。
世界で標準的な規格を採用しているため、規格の不適合を減らし配線を統一できます。
A control cable that meets US (UL), Canadian (CSA), European (CE), and Japanese (PSE) standards and has excellent heat resistance, oil resistance, flame resistance, and flexibility.
Since standard standards are used around the world, non-conformance can be reduced and wiring can be unified.

製品概要 Summary

| 項目 Item | UL | cUL | CE |
|--|---|----------------------|-----------------------|
| 適用規格 Standard covered Reference standard | UL758 Style 2464 | CSA C22.2 No.210 AWM | IEC60227-7 60227IEC75 |
| 定格電圧 Voltage rating | 300V | 300V | 300/500V |
| 定格温度 Temperature rating | 80℃ | 80℃ | 70℃ |
| 耐寒温度 Cold resistance | -30℃(固定配線時) (Fixed) | | |
| 難燃性 Flame retardance | VW-1 | FT1 | IEC60332 |
| 耐電圧 Test voltage | 2000V・5分 | | |
| 標準識別 Standard core identification | 2心:黒(ナンバリング連続印刷) 3心以上:黒(ナンバリング連続印刷)+[(G線)/Y(黄)] Two-core are identified with white numbering their black insulations. Three or more core cables are identified with white numbering their black insulations+green/yellow. | | |
| 備考 Note | シールド付きは別途設計いたします。 I will design separately with the shield. | | |
| 最小曲げ半径 Minimum bending radius | 固定部:4D以上 D:ケーブル外径 Fixed:4D or more | | |

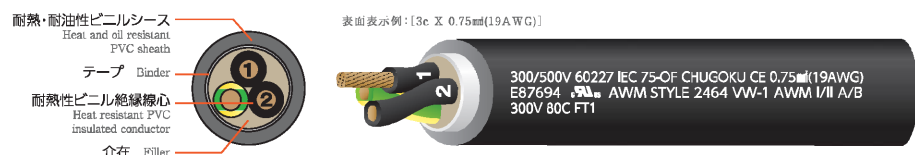
特性 Feature

| | |
|------------------------|---|
| 導体 Conductor stranding | UL:フレキシブル導体 CE:IEC60228 class5 UL:Flexible conductor CE:IEC60228 class5 |
| 絶縁体 Insulation | 105℃ 耐熱性ビニル重合物 105℃ heat resistant PVC |
| シース Sheath | 105℃ 耐熱・耐油性ビニル重合物 105℃ heat and oil resistant PVC シースの標準色:黒 Standard color:Black |

注 意 : 本品は標準用途用の設計となっており、軽度な屈曲用途には使用可能ですが、産業機器等で繰返し屈曲を受ける用途で使用されると、早期断線の事故が発生する可能性があります。可動用に設計されたケーブルをご使用ください。

Caution : These cables are designed for light use.If the cables are subjected to severe use, such as continual flexing, distortion or tension, which could cause early breakdown of any conductor,the life of the cables becomes short. When used under severe conditions, we encourage you to use the cables designed for movable use.

構成 Construction



構造表 Construction table

| 線心数 No. of cores | サイズ Nominal cross sectional area | | 導体構成 Composition of conductor | 導体径 Diameter of conductor | 線心外径 Diameter of core | ケーブル外径 Approx.Overall diameter | 概算質量 Approx.mass | 導体抵抗 Conductor resistance | 許容電流値 Current Carrying Capacities(At30℃) | |
|---------------------|-------------------------------------|-------|----------------------------------|------------------------------|--------------------------|-----------------------------------|---------------------|------------------------------|---|----|
| | mm ² | AWG | | | | | | | 本/■ | mm |
| 2 | 0.5 | 20 | 21/0.18 | 0.9 | 2.1 | 6.3 | 50 | 39.0 | 10 | 11 |
| 3 | | | | | | 6.6 | 60 | | 10 | 11 |
| 4 | | | | | | 7.2 | 70 | | 8 | 9 |
| 5 | | | | | | 7.8 | 85 | | 8 | 8 |
| 6 | | | | | | 8.4 | 100 | | 7 | 8 |
| 7 | | | | | | 9.0 | 110 | | 7 | 7 |
| 8 | | | | | | 9.9 | 130 | | 6 | 7 |
| 10 | | | | | | 10.9 | 155 | | 6 | 6 |
| 16 | | | | | | 12.4 | 220 | | 5 | 5 |
| 20 | | | | | | 14.0 | 280 | | 4 | 5 |
| 24 | 15.5 | 335 | 4 | 5 | | | | | | |
| 30 | 16.6 | 390 | 4 | 4 | | | | | | |
| 2 | 0.75 | 19 | 30/0.18 | 1.1 | 2.3 | 6.7 | 60 | 26.0 | 12 | 13 |
| 3 | | | | | | 7.1 | 70 | | 12 | 13 |
| 4 | | | | | | 7.7 | 85 | | 11 | 12 |
| 5 | | | | | | 8.3 | 100 | | 10 | 11 |
| 6 | | | | | | 9.0 | 120 | | 9 | 10 |
| 7 | | | | | | 9.9 | 140 | | 9 | 9 |
| 8 | | | | | | 10.6 | 160 | | 8 | 9 |
| 10 | | | | | | 11.9 | 195 | | 7 | 8 |
| 16 | | | | | | 13.5 | 280 | | 6 | 7 |
| 20 | | | | | | 15.1 | 350 | | 6 | 6 |
| 24 | 16.7 | 420 | 5 | 6 | | | | | | |
| 30 | 18.1 | 495 | 5 | 5 | | | | | | |
| 2 | 1 | 18 | 40/0.18 | 1.3 | 2.5 | 7.1 | 65 | 19.5 | 15 | 16 |
| 3 | | | | | | 7.5 | 80 | | 15 | 16 |
| 4 | | | | | | 8.1 | 100 | | 13 | 14 |
| 5 | | | | | | 8.9 | 120 | | 12 | 13 |
| 6 | | | | | | 9.8 | 145 | | 11 | 12 |
| 7 | | | | | | 10.6 | 165 | | 10 | 11 |
| 8 | | | | | | 11.5 | 195 | | 10 | 11 |
| 10 | | | | | | 12.7 | 235 | | 9 | 10 |
| 16 | | | | | | 14.7 | 340 | | 7 | 8 |
| 20 | | | | | | 16.4 | 425 | | 7 | 8 |
| 24 | 18.1 | 510 | 6 | 7 | | | | | | |
| 30 | 19.5 | 605 | 6 | 7 | | | | | | |
| 2 | 1.5 | 16 | 30/0.26 | 1.6 | 3.0 | 8.1 | 90 | 13.3 | 19 | 21 |
| 3 | | | | | | 8.6 | 110 | | 19 | 21 |
| 4 | | | | | | 9.3 | 140 | | 16 | 18 |
| 5 | | | | | | 10.4 | 175 | | 15 | 16 |
| 6 | | | | | | 11.5 | 210 | | 14 | 15 |
| 7 | | | | | | 12.6 | 245 | | 13 | 14 |
| 8 | | | | | | 13.5 | 280 | | 13 | 14 |
| 10 | | | | | | 15.1 | 340 | | 12 | 13 |
| 16 | | | | | | 17.4 | 500 | | 10 | 11 |
| 20 | | | | | | 19.4 | 620 | | 9 | 10 |
| 24 | 22.3 | 785 | 8 | 9 | | | | | | |
| 30 | 23.7 | 915 | 8 | 8 | | | | | | |
| 2 | 2.5 | 14 | 48/0.26 | 2.1 | 3.7 | 9.5 | 125 | 7.98 | 26 | 29 |
| 3 | | | | | | 10.3 | 165 | | 26 | 29 |
| 4 | | | | | | 11.4 | 210 | | 23 | 25 |
| 5 | | | | | | 12.5 | 265 | | 21 | 23 |
| 6 | | | | | | 13.8 | 305 | | 19 | 21 |
| 7 | | | | | | 15.1 | 360 | | 18 | 20 |
| 8 | | | | | | 16.5 | 420 | | 18 | 19 |
| 10 | | | | | | 18.3 | 505 | | 16 | 18 |
| 16 | | | | | | 21.1 | 750 | | 13 | 15 |
| 20 | | | | | | 24.1 | 960 | | 12 | 13 |
| 24 | 26.4 | 1,150 | 11 | 13 | | | | | | |
| 30 | 28.6 | 1,370 | 10 | 12 | | | | | | |

1) 連続許容電流値は「JCS0168-1」により計算した値であり、保証値ではありません。
布設条件: 空中懸架一条布設、周囲温度 30℃(周囲温度の電流補正係数は P.134 を参照してください)。
2) 布設される状況により、米国 NFPA79 等に記載がありますので、御確認ください。