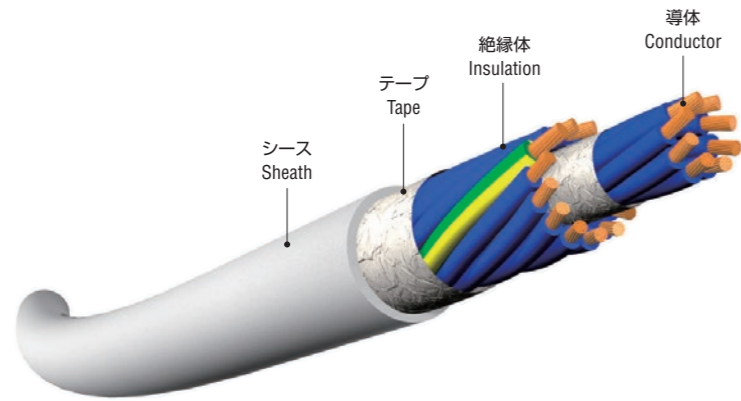


# RO-FLEX-TC-MTW-T

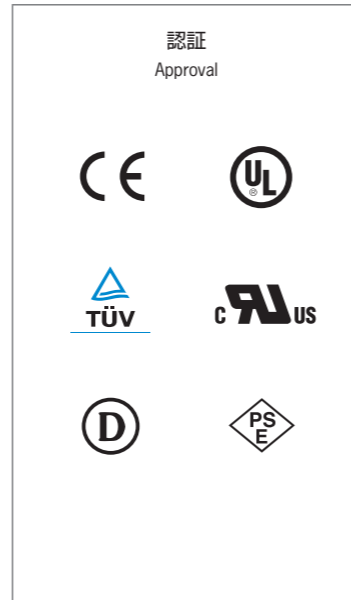
Fixed cable. Electrical Power and Control Tray Cable with optical Fiber Member, Machine Tool Wire and High Voltage Cables. Especially Purpose For NFPA79&NFPA70.

## 北米市場/North American Market



シース色：ライトグレー  
Sheath color: Light grey

例/Reference RO-FLEX-TC-MTW-T 0.75mm<sup>2</sup>×20c+2.5mm<sup>2</sup>×1c



| ケーブル特性<br>Characteristics<br>of cable | 耐熱性<br>Heat resistance | 耐寒性<br>Cold resistance | 耐油性<br>Oil resistance | 難燃性<br>Flame retardant | 耐屈曲性<br>Flexing | 耐ノイズ性<br>Noise resistance | 配線<br>Wiring        | RoHS指令<br>RoHS Directive | アウトガス対応<br>Outgas |
|---------------------------------------|------------------------|------------------------|-----------------------|------------------------|-----------------|---------------------------|---------------------|--------------------------|-------------------|
|                                       | +105°C                 | -15°C                  | A                     | B                      | B               | D                         | 電源線、機器内配線<br>及び外部連絡 | 適合<br>Conformity         | C                 |

※ケーブル特性については、巻末の技術データを参照して下さい。Refer to technical data.

## 用途 Application

1. 機器内部・外部配線  
ケーブルトレイ配線用

## 1. Internal and External wiring for tray cable

## 特長 Characteristics

CE, NFPA, UL, c-UL, PSEに適合しており1つのケーブルで国内及び多国の輸出に使用できます。又、設計の簡素化と在庫の低減につながり従来よりも効率の良い設計管理と在庫管理に最適です。このケーブルは「低電圧指令」2014/35/EUに適合しています。又、「RoHS指令」2011/65/EUに適合しています。

RO-FLEX-TC-MTW-T series enable to simplify the design and efficient storage for the reduction of costs due to CE, NFPA, UL, c-UL and PSE approvals. The product is in conformity to Directive 2014/35/EU("Low voltage directive"). "Conformity to RoHS directive 2011/65/EU"

## ■認証 APPROVAL

| 項目 Item                                                            | CE                                                  | (UL)                                                                              | UL                 | c-UL    | PSE                        |            |
|--------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|---------|----------------------------|------------|
| 認証<br>Approval                                                     | 認証番号<br>Certificate number<br>J50009996             | E209359                                                                           | E207230            | E194236 | E194236                    | JD60090189 |
|                                                                    | 適用規格<br>Standard<br>HD21<br>EN50525                 | UL1063                                                                            | UL1277             | UL758   | CSA C22.2<br>No.210        | IEC 60227  |
|                                                                    | ケーブルデザイン<br>Cable designation<br>A05V2V5-F          | MTW                                                                               | TC-ER              | 2586    | AWMI/II<br>Group A/B       | (PS)E      |
| 特性<br>Characteristics                                              | 公称電圧<br>Rated voltage<br>300/500V                   | 600V                                                                              |                    | 600V    | 600V                       | 300/500V   |
|                                                                    | 耐電圧<br>Test voltage<br>2500V/5分                     |                                                                                   |                    |         |                            |            |
|                                                                    | 絶縁抵抗<br>Insulation resistance<br>200MΩ・km (at 20°C) |                                                                                   |                    |         |                            |            |
|                                                                    | 使用温度<br>Temperature range<br>-15°C~90°C             | 90°Cdry<br>60°Cwet                                                                | 90°Cdry<br>75°Cwet | 105°C   | 105°C                      | -15°C~90°C |
| 曲げ半径<br>Minimum bending for radius<br>6D D=ケーブル外径/Overall diameter |                                                     |                                                                                   |                    |         |                            |            |
| 難燃性<br>Flame retardant<br>EN 50265-2-1 (IEC 60332-1)               | VW-1                                                | VW-1for CT use<br>(UL 1685)                                                       | VW-1               | FT1     | EN 50265-2-1 (IEC 60332-1) |            |
| 構造<br>Construction                                                 | 導体<br>Conductor<br>IEC 60228 Class 5                | ASTM B-3                                                                          |                    |         | IEC 60228 Class 5          |            |
|                                                                    | 絶縁/識別<br>Insulation/<br>Core<br>identification      | 耐熱PVC/青/ナンバリング白+緑/黄*<br>Heat resistant PVC/Blue core with white numbering +G/Y*   |                    |         |                            |            |
|                                                                    | シース/シース色<br>Sheath/Sheath color                     | 耐油・耐熱PVC/ライトグレー(N7)<br>Oil and Heat resistant PVC/Light grey (Mansel number : N7) |                    |         |                            |            |

## RoHS指令 (2011/65/EU)適合 Conformity of RoHS directive (2011/65/EU)

| 化学物質<br>Chemical substances  | 含有率 ppm<br>Content ppm |
|------------------------------|------------------------|
| 鉛<br>Lead                    | <1000                  |
| 水銀<br>Mercury                | <1000                  |
| カドミウム<br>Cadmium             | <100                   |
| 六価クロム<br>Hexavalent Chromium | <1000                  |
| PBB                          | <1000                  |
| PBDE                         | <1000                  |

※緑/黄は、2.5mm<sup>2</sup>(14AWG)になります。  
※Green/Yellow is 2.5mm<sup>2</sup>(14AWG).

## ケーブル構造 CABLE CONSTRUCTION

| 商品番号<br>Part number | 導体断面積<br>Nominal cross<br>sectional area<br>mm <sup>2</sup>  | 導体構成/外径<br>Conductor<br>composition/<br>(diameter)<br>mm | 絶縁外径<br>Diameter of<br>insulation<br>mm | 芯数<br>No. of cores<br>芯 | 仕上外径<br>Approx. Overall<br>diameter<br>mm | 概算質量<br>Approx. mass<br>kg/km | 導体抵抗<br>Conductor<br>resistance<br>Ω/km | 許容電流<br>(IEC60364-5-52)<br>Current Carrying<br>Capacities(At30°C)<br>A |
|---------------------|--------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------|-------------------------------------------|-------------------------------|-----------------------------------------|------------------------------------------------------------------------|
| 8010 0007502        | 0.75mm <sup>2</sup> /18AWG                                   | 33/0.18(1.1)                                             | 2.8                                     | 2c <sup>**</sup>        | 8.1                                       | 83                            | 21.8                                    | 8.8                                                                    |
| 8010 0007503        | 0.75mm <sup>2</sup> /18AWG                                   | 33/0.18(1.1)                                             | 2.8                                     | 3c <sup>**</sup>        | 8.5                                       | 96                            | 21.8                                    | 7.7                                                                    |
| 8010 0007504        | 0.75mm <sup>2</sup> /18AWG                                   | 33/0.18(1.1)                                             | 2.8                                     | 4c <sup>**</sup>        | 9.3                                       | 115                           | 21.8                                    | 7.2                                                                    |
| 8010 0007508        | 0.75mm <sup>2</sup> /18AWG<br>2.5mm <sup>2</sup> (G/Y)/14AWG | 33/0.18(1.1)<br>93/0.18(1.9)                             | 2.8<br>3.6                              | 7c<br>1c                | 13.7                                      | 242                           | 21.8<br>7.98                            | 6.1                                                                    |
| 8010 0007511        | 0.75mm <sup>2</sup> /18AWG<br>2.5mm <sup>2</sup> (G/Y)/14AWG | 33/0.18(1.1)<br>93/0.18(1.9)                             | 2.8<br>3.6                              | 10c<br>1c               | 15.3                                      | 292                           | 21.8<br>7.98                            | 5.5                                                                    |
| 8010 0007521        | 0.75mm <sup>2</sup> /18AWG<br>2.5mm <sup>2</sup> (G/Y)/14AWG | 33/0.18(1.1)<br>93/0.18(1.9)                             | 2.8<br>3.6                              | 20c<br>1c               | 20.2                                      | 506                           | 21.8<br>7.98                            | 4.4                                                                    |
| 8010 0007531        | 0.75mm <sup>2</sup> /18AWG<br>2.5mm <sup>2</sup> (G/Y)/14AWG | 33/0.18(1.1)<br>93/0.18(1.9)                             | 2.8<br>3.6                              | 30c<br>1c               | 23.7                                      | 691                           | 21.8<br>7.98                            | 3.3                                                                    |
| 8010 0007541        | 0.75mm <sup>2</sup> /18AWG<br>2.5mm <sup>2</sup> (G/Y)/14AWG | 33/0.18(1.1)<br>93/0.18(1.9)                             | 2.8<br>3.6                              | 40c<br>1c               | 26.8                                      | 904                           | 21.8<br>7.98                            | 3.3                                                                    |
| 8010 0007551        | 0.75mm <sup>2</sup> /18AWG<br>2.5mm <sup>2</sup> (G/Y)/14AWG | 33/0.18(1.1)<br>93/0.18(1.9)                             | 2.8<br>3.6                              | 50c<br>1c               | 29.2                                      | 1078                          | 21.8<br>7.98                            | 3.3                                                                    |

●販売条長：153m Standard length：153m (500Ft) / 8010 0007502~08  
305m Standard length：305m (1000Ft) / 8010 0007511~51

※備考：2c, 3c, 4cはアース線(緑/黄)無しです。  
※Note: The cable of 2c, 3c and 4c are excluding Green/Yellow.

※本カタログの許容電流値はエアフリー・周囲温度30°Cでの値です。周囲温度によって、下記の補正係数を乗じてください。  
※The current carrying capacities of this catalog is a value at the ambient temperature 30°C in the air.

## ■温度減少係数 Temperature Correction Factor

| 温度(°C)<br>Ambient temperature | 10   | 11~15 | 16~20 | 21~25 | 26~30 | 31~35 | 36~40 | 41~45 | 46~50 | 51~55 | 56~60 |
|-------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 係数<br>Correction factor       | 1.22 | 1.17  | 1.12  | 1.06  | 1.00  | 0.94  | 0.87  | 0.79  | 0.71  | 0.61  | 0.50  |

●北米で使用する際の許容電流については、HP上の「許容電流資料」をご参照ください。  
Please refer to our Homepage for the current carrying capacities in North America.