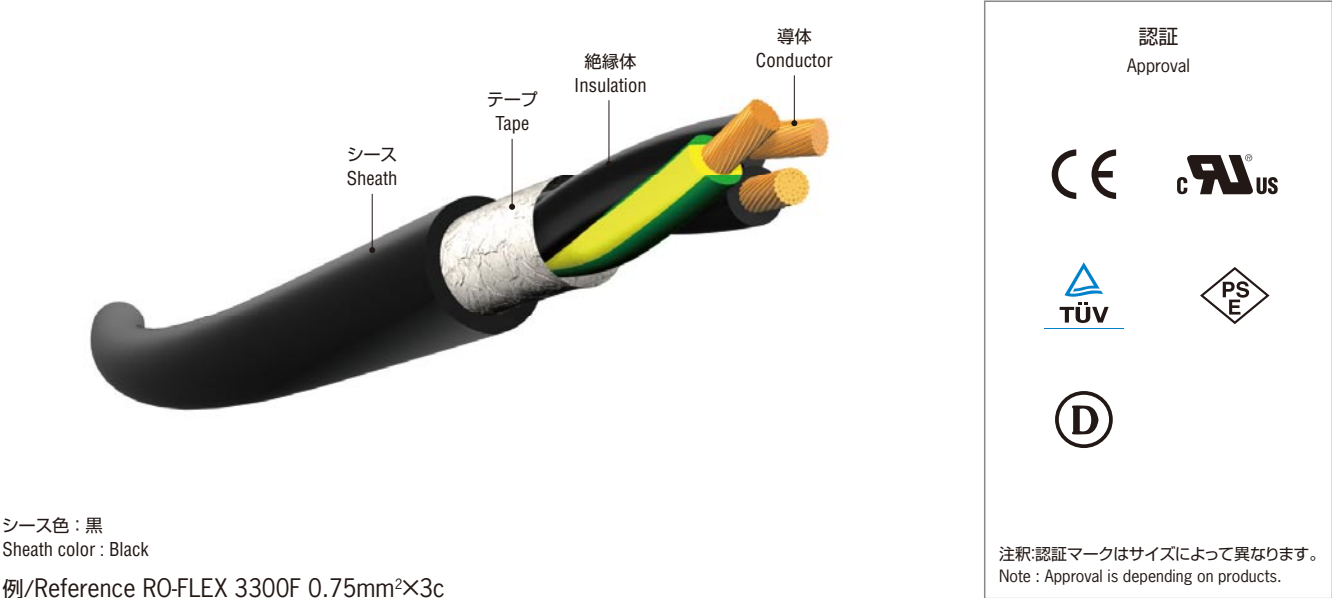


# RO-FLEX 3300F

Robot cable. Oil resistant PVC cable with two or more conductors.

WORLD WIDE STANDARD CABLE.  
Recognition-Series



シース色 : 黒  
Sheath color : Black

例/Reference RO-FLEX 3300F 0.75mm<sup>2</sup>×3c

| 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℃                  | 0℃                     | A                     | B                      | A               | D                         | 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. 可動部  
2. 電源線

1. Constant movement  
2. Power line

## 特 長 Characteristics

CE, 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』2006/95/EC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 3300F series enable to simplify the design and efficient storage for the reduction of costs due to CE, UL, c-UL and PSE approvals.  
The product is in conformity to EC directive 2006/95("Low voltage directive").  
"Conformity to RoHS directive 2011/65/EU"

## ■認証 APPROVAL

| 項目 Item               |                                         | CE                                                                              | UL                                                         | c-UL                                                       | PSE※                       |
|-----------------------|-----------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|----------------------------|
| 認証<br>Approval        | 認証番号<br>Certificate number              | J50010540<br>J50010525                                                          | E194236                                                    | E194236                                                    | 136042                     |
|                       | 適応規格<br>Standard                        | HD21                                                                            | UL758                                                      | CSA C22.2 No.210                                           | IEC 60227                  |
|                       | ケーブルデザイン<br>Cable designation           | A05V2V5-F                                                                       | 2464:0.5～1.0mm <sup>2</sup><br>2586:1.5～4.0mm <sup>2</sup> | AWM I/II Group A/B                                         | 〈PS〉E                      |
| 特性<br>Characteristics | 公称電圧<br>Rated voltage                   | 300/500V                                                                        | 300V:0.5～1.0mm <sup>2</sup><br>600V:1.5～4.0mm <sup>2</sup> | 300V:0.5～1.0mm <sup>2</sup><br>600V:1.5～4.0mm <sup>2</sup> | 300/500V                   |
|                       | 耐電圧<br>Test voltage                     | 2500V/5分                                                                        |                                                            |                                                            |                            |
|                       | 絶縁抵抗<br>Insulation resistance           | 200MΩ・km (at 20℃)                                                               |                                                            |                                                            |                            |
|                       | 使用温度<br>Temperature range               | 0℃～90℃                                                                          | 80℃:0.5～1.0mm <sup>2</sup><br>105℃:1.5～4.0mm <sup>2</sup>  | 105℃                                                       | 0℃～90℃                     |
|                       | 曲げ半径<br>Minimum bending for radius      | 6D D=ケーブル外径/Overall diameter                                                    |                                                            |                                                            |                            |
|                       | 難燃性<br>Flame retardant                  | EN 50265-2-1 (IEC 60332-1)                                                      | VW-1                                                       | FT1                                                        | EN 50265-2-1 (IEC 60332-1) |
| 構造<br>Construction    | 導体<br>Conductor                         | IEC 60228 Class 6                                                               | ASTM B-3                                                   |                                                            | IEC 60228 Class 6          |
|                       | 絶縁/識別<br>Insulation/Core identification | 耐熱PVC/黒/ナンバリング白+黄/緑<br>Heat resistant PVC/Black core with white numbering + Y/G |                                                            |                                                            |                            |
|                       | シース/シース色<br>Sheath/Sheath color         | 耐油・耐熱PVC/黒<br>Oil and Heat resistant PVC/Black                                  |                                                            |                                                            |                            |

※電気用品安全法は0.75mm<sup>2</sup>以上にのみ適応されています。  
※Denan law only applicable to 0.75mm<sup>2</sup> and more

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                    | <100                   |
| 水銀<br>Mercury                | <20                    |
| カドミウム<br>Cadmium             | <20                    |
| 六価クロム<br>Hexavalent Chromium | <20                    |
| PBB                          | <60                    |
| PBDE                         | <60                    |

| 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>(IEC60364-5-523)<br>Current Carrying<br>Capacities(At30℃)<br>A |
| 3300 0005002              | 0.5mm <sup>2</sup> /21AWG                                   | 90/0.08<br>〈1.0mm〉                                       | 2.2                                     | 2c                      | 6.3                                      | 48                           | 39                                      | 6.4                                                                    |
| 3300 0005003              |                                                             |                                                          |                                         | 3c                      | 6.7                                      | 56                           |                                         | 5.6                                                                    |
| 3300 0005004              |                                                             |                                                          |                                         | 4c                      | 7.2                                      | 68                           |                                         | 5.2                                                                    |
| 3300 0005005              |                                                             |                                                          |                                         | 5c                      | 8.0                                      | 84                           |                                         | 4.8                                                                    |
| 3300 0005006              |                                                             |                                                          |                                         | 6c                      | 8.7                                      | 100                          |                                         | 4.4                                                                    |
| 3300 0005007              |                                                             |                                                          |                                         | 7c                      | 9.7                                      | 121                          |                                         | 4.4                                                                    |
| 3300 0005008              |                                                             |                                                          |                                         | 8c                      | 10.4                                     | 139                          |                                         | 4.0                                                                    |
| 3300 0005010              |                                                             |                                                          |                                         | 10c                     | 11.3                                     | 146                          |                                         | 4.0                                                                    |
| 3300 0005012              |                                                             |                                                          |                                         | 12c                     | 11.7                                     | 165                          |                                         | 3.6                                                                    |
| 3300 0005016              |                                                             |                                                          |                                         | 16c                     | 13.0                                     | 214                          |                                         | 3.2                                                                    |
| 3300 0005018              |                                                             |                                                          |                                         | 18c                     | 13.9                                     | 244                          |                                         | 3.2                                                                    |
| 3300 0005020              |                                                             |                                                          |                                         | 20c                     | 14.6                                     | 271                          |                                         | 3.2                                                                    |
| 3300 0007502              | 0.75mm <sup>2</sup> /19AWG                                  | 150/0.08<br>〈1.2mm〉                                      | 2.4                                     | 2c                      | 6.7                                      | 59                           | 26                                      | 8.8                                                                    |
| 3300 0007503              |                                                             |                                                          |                                         | 3c                      | 7.1                                      | 69                           |                                         | 7.7                                                                    |
| 3300 0007504              |                                                             |                                                          |                                         | 4c                      | 7.9                                      | 88                           |                                         | 7.2                                                                    |
| 3300 0007505              |                                                             |                                                          |                                         | 5c                      | 8.6                                      | 106                          |                                         | 6.6                                                                    |
| 3300 0007506              |                                                             |                                                          |                                         | 6c                      | 9.5                                      | 129                          |                                         | 6.1                                                                    |
| 3300 0007507              |                                                             |                                                          |                                         | 7c                      | 10.3                                     | 151                          |                                         | 6.1                                                                    |
| 3300 0007508              |                                                             |                                                          |                                         | 8c                      | 11.3                                     | 179                          |                                         | 5.5                                                                    |
| 3300 0007510              |                                                             |                                                          |                                         | 10c                     | 12.3                                     | 190                          |                                         | 5.5                                                                    |
| 3300 0007512              |                                                             |                                                          |                                         | 12c                     | 12.7                                     | 216                          |                                         | 5.0                                                                    |
| 3300 0007516              |                                                             |                                                          |                                         | 16c                     | 14.2                                     | 281                          |                                         | 4.4                                                                    |
| 3300 0007518              |                                                             |                                                          |                                         | 18c                     | 15.1                                     | 320                          |                                         | 4.4                                                                    |
| 3300 0007520              |                                                             |                                                          |                                         | 20c                     | 15.9                                     | 355                          |                                         | 4.4                                                                    |
| 3300 0010002              | 1.0mm <sup>2</sup> /18AWG                                   | 7/27/0.08<br>〈1.4mm〉                                     | 2.6                                     | 2c                      | 7.1                                      | 67                           | 19.5                                    | 18.0                                                                   |
| 3300 0010003              |                                                             |                                                          |                                         | 3c                      | 7.5                                      | 79                           |                                         | 18.0                                                                   |
| 3300 0010004              |                                                             |                                                          |                                         | 4c                      | 8.4                                      | 102                          |                                         | 14.4                                                                   |
| 3300 0010005              |                                                             |                                                          |                                         | 5c                      | 9.3                                      | 126                          |                                         | 14.4                                                                   |
| 3300 0010006              |                                                             |                                                          |                                         | 6c                      | 10.1                                     | 149                          |                                         | 14.4                                                                   |
| 3300 0010007              |                                                             |                                                          |                                         | 7c                      | 11.2                                     | 180                          |                                         | 12.6                                                                   |
| 3300 0010008              |                                                             |                                                          |                                         | 8c                      | 12.2                                     | 212                          |                                         | 12.6                                                                   |
| 3300 0010010              |                                                             |                                                          |                                         | 10c                     | 13.1                                     | 220                          |                                         | 9.0                                                                    |
| 3300 0010012              |                                                             |                                                          |                                         | 12c                     | 13.7                                     | 256                          |                                         | 9.0                                                                    |
| 3300 0010016              |                                                             |                                                          |                                         | 16c                     | 15.3                                     | 334                          |                                         | 9.0                                                                    |
| 3300 0010018              |                                                             |                                                          |                                         | 18c                     | 16.1                                     | 372                          |                                         | 9.0                                                                    |
| 3300 0010020              |                                                             |                                                          |                                         | 20c                     | 17.2                                     | 421                          |                                         | 9.0                                                                    |
| 3300 0015002              | 1.5mm <sup>2</sup> /16AWG                                   | 7/41/0.08<br>〈1.7mm〉                                     | 3.3                                     | 2c                      | 8.7                                      | 101                          | 13.3                                    | 24                                                                     |
| 3300 0015003              |                                                             |                                                          |                                         | 3c                      | 9.4                                      | 124                          |                                         | 24                                                                     |
| 3300 0015004              |                                                             |                                                          |                                         | 4c                      | 10.3                                     | 153                          |                                         | 19                                                                     |
| 3300 0015005              |                                                             |                                                          |                                         | 5c                      | 11.4                                     | 190                          |                                         | 19                                                                     |
| 3300 0015006              |                                                             |                                                          |                                         | 6c                      | 12.6                                     | 231                          |                                         | 19                                                                     |
| 3300 0015007              |                                                             |                                                          |                                         | 7c                      | 14.0                                     | 277                          |                                         | 16                                                                     |
| 3300 0015008              |                                                             |                                                          |                                         | 8c                      | 15.2                                     | 326                          |                                         | 16                                                                     |
| 3300 0015010              |                                                             |                                                          |                                         | 10c                     | 16.5                                     | 343                          |                                         | 12                                                                     |
| 3300 0015012              |                                                             |                                                          |                                         | 12c                     | 17.0                                     | 392                          |                                         | 12                                                                     |
| 3300 0015016              |                                                             |                                                          |                                         | 16c                     | 19.0                                     | 511                          |                                         | 12                                                                     |
| 3300 0015018              |                                                             |                                                          |                                         | 18c                     | 20.2                                     | 579                          |                                         | 12                                                                     |
| 3300 0015020              |                                                             |                                                          |                                         | 20c                     | 21.5                                     | 653                          |                                         | 12                                                                     |
| 3300 0025002              | 2.5mm <sup>2</sup> /14AWG                                   | 7/70/0.08<br>〈2.3mm〉                                     | 3.9                                     | 2c                      | 10.1                                     | 146                          | 7.98                                    | 30                                                                     |
| 3300 0025003              |                                                             |                                                          |                                         | 3c                      | 10.9                                     | 180                          |                                         | 30                                                                     |
| 3300 0025004              |                                                             |                                                          |                                         | 4c                      | 12.1                                     | 227                          |                                         | 24                                                                     |
| 3300 0025005              |                                                             |                                                          |                                         | 5c                      | 13.2                                     | 272                          |                                         | 24                                                                     |
| 3300 0025006              |                                                             |                                                          |                                         | 6c                      | 14.6                                     | 331                          |                                         | 24                                                                     |
| 3300 0025007              |                                                             |                                                          |                                         | 7c                      | 16.2                                     | 396                          |                                         | 21                                                                     |
| 3300 0025008              |                                                             |                                                          |                                         | 8c                      | 17.6                                     | 464                          |                                         | 21                                                                     |
| 3300 0025010              |                                                             |                                                          |                                         | 10c                     | 19.1                                     | 492                          |                                         | 15                                                                     |
| 3300 0025012              |                                                             |                                                          |                                         | 12c                     | 19.9                                     | 572                          |                                         | 15                                                                     |
| 3300 0025016              |                                                             |                                                          |                                         | 16c                     | 22.4                                     | 757                          |                                         | 15                                                                     |
| 3300 0025018              |                                                             |                                                          |                                         | 18c                     | 23.8                                     | 857                          |                                         | 15                                                                     |
| 3300 0025020              |                                                             |                                                          |                                         | 20c                     | 25.3                                     | 962                          |                                         | 15                                                                     |
| 3300 0040002              | 4.0mm <sup>2</sup> /12AWG                                   | 7/110/0.08<br>〈2.8mm〉                                    | 4.6                                     | 2c                      | 11.7                                     | 205                          | 4.95                                    | 35                                                                     |
| 3300 0040003              |                                                             |                                                          |                                         | 3c                      | 12.6                                     | 254                          |                                         | 35                                                                     |
| 3300 0040004              |                                                             |                                                          |                                         | 4c                      | 14.0                                     | 322                          |                                         | 28                                                                     |
| 3300 0040005              |                                                             |                                                          |                                         | 5c                      | 15.5                                     | 394                          |                                         | 28                                                                     |

●販売条長 : 153m Standard length : 153m (500Ft)