

# PURELEX100TS

欧州/北米対応 耐油性固定用シールドケーブル



ハロゲンフリー/HALOGEN FREE

NFPA70対応

シース Sheath  
シールド Shield  
テープ Tape  
絶縁体 Insulation  
導体 Conductor

環境規制  
Environmental control

ハロゲンフリー

環境規制対応

アウトガス対応

グローバル規格

ISO14001取得

例/Reference PURELEX100TS 0.14mm<sup>2</sup>×1P

| ケーブル特性 <sup>※1</sup><br>Characteristics<br>of cable | 使用温度範囲<br>Operating temp | 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 | ハロゲンフリー<br>Halogen free |
|-----------------------------------------------------|--------------------------|-----------------------|------------------------|-----------------|---------------------------|--------------------|--------------------------|-------------------|-------------------------|
|                                                     | −30〜+90℃                 | A                     | C                      | B               | A                         | 機器内部連絡<br>Internal | 適合<br>Conformity         | B                 | ○                       |

※1 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. 固定部

2. 通信線

3. ハロゲンフリー

4. 耐ノイズ環境

1. Fixed installation

2. Communication line

3. Halogen Free

4. Noise Resistance

特 長 Characteristics

ハロゲン系物質を含んでおらず、燃焼・焼却時に有害物質が発生しません。また、CE,UL,c-UL,NFPA70に適合しており1つのケーブルで国内及び多国の輸出ができます。また、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。

PURELEX100TS series does not contain a halogen system material, and when burning and incinerating, the poisonous substance is not generated. These enable to simplify the design and efficient storage for the reduction of costs due to CE, UL, c-UL and NFPA70 approvals.

■認証 Approval※2

| 項目 Item               |                                         | CE                                                                      | (UL)     | UL       | c-(UL)               | c-UL                    |
|-----------------------|-----------------------------------------|-------------------------------------------------------------------------|----------|----------|----------------------|-------------------------|
| 認証<br>Approval        | 認証番号<br>Certificate number              | J 50158538                                                              | E 308483 | E 194236 | E 308483             | E 194236                |
|                       | 適応規格<br>Standard                        | VDE 0812                                                                | UL 444   | UL 758   | CSA C 22.2<br>No.214 | CSA C 22.2<br>No.210    |
|                       | ケーブルデザイン<br>Cable designation           | ---                                                                     | CMX      | 20939    | CMX                  | Class I/II<br>Group A/B |
| 特性<br>Characteristics | 公称電圧<br>Rated voltage                   | 350V peak : 0.14mm <sup>2</sup><br>500V peak : 0.25~0.34mm <sup>2</sup> | (300V)   | 600V     | (300V)               | 600V                    |
|                       | 耐電圧<br>Test voltage                     | 2000V/15min                                                             |          |          |                      |                         |
|                       | 絶縁抵抗<br>Insulation resistance           | 200MΩ・km (at20℃)                                                        |          |          |                      |                         |
|                       | 使用温度<br>Temperature range               | −30~90℃                                                                 | 75℃      | 80℃      | 75℃                  | 80℃                     |
|                       | 曲げ半径<br>Minimum bending for radius      | 6D D=ケーブル外径／Outside diameter                                            |          |          |                      |                         |
|                       | 難燃性<br>Flame retardant                  | EN 50265-2-1<br>(IEC 60332-1)                                           | VW-1     | VW-1     | VW-1                 | FT 1                    |
| 構造<br>Construction    | 導体<br>Conductor                         | IEC 60228 Class 5                                                       | ASTM B-3 |          |                      |                         |
|                       | 絶縁/識別<br>Insulation/Core identification | TPE/「識別表P62参照」(See Core Identification, P62)                            |          |          |                      |                         |
|                       | シールド<br>Shield                          | 編組シールド 0.12 TAC (Braid shield 0.12 TAC)                                 |          |          |                      |                         |
|                       | シース/色<br>Sheath/color                   | PUR/黒 (Black)                                                           |          |          |                      |                         |

※2 認証内容はサイズによって異なります。Approval is depending on products.

| ケーブル構造 Cable construction |                                                               |                                                         |                                      |                         |                                        |                              |                                      |                                                                     |                                                            |
|---------------------------|---------------------------------------------------------------|---------------------------------------------------------|--------------------------------------|-------------------------|----------------------------------------|------------------------------|--------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|
| 商品番号<br>Part number       | 導体断面積<br>Nominal cross sectional area<br>mm <sup>2</sup> /AWG | 導体構成/(外径)<br>Conductor composition/<br>(diameter)<br>mm | 絶縁外径<br>Diameter of insulation<br>mm | 対数<br>No. of pairs<br>対 | 仕上外径<br>Approx. overall diameter<br>mm | 概算質量<br>Approx.mass<br>kg/km | 導体抵抗<br>Conductor resistance<br>Ω/km | 許容電流<br>(IEC 60364-5-52)<br>Current carrying capacities(At30℃)<br>A | 二酸化炭素<br>排出量<br>Carbon dioxide<br>kg-CO <sub>2</sub> /100m |
| 1411 1001401              | 0.14mm <sup>2</sup> /<br>26AWG                                | 7/0.16<br>(0.5mm)                                       | 1.0                                  | 1P                      | 4.2                                    | 25                           | 132                                  | 4.4                                                                 | 8.5                                                        |
| 1411 1001402              |                                                               |                                                         |                                      | 2P                      | 5.6                                    | 43                           |                                      | 3.2                                                                 | 11.0                                                       |
| 1411 1001403              |                                                               |                                                         |                                      | 3P                      | 5.9                                    | 48                           |                                      | 2.8                                                                 | 13.9                                                       |
| 1411 1001404              |                                                               |                                                         |                                      | 4P                      | 6.3                                    | 56                           |                                      | 2.6                                                                 | 16.9                                                       |
| 1411 1001405              |                                                               |                                                         |                                      | 5P                      | 6.8                                    | 64                           |                                      | 2.4                                                                 | 19.7                                                       |
| 1411 1001406              |                                                               |                                                         |                                      | 6P                      | 7.5                                    | 78                           |                                      | 2.2                                                                 | 21.4                                                       |
| 1411 1001407              |                                                               |                                                         |                                      | 7P                      | 7.5                                    | 75                           |                                      | 2.1                                                                 | 24.4                                                       |
| 1411 1001408              |                                                               |                                                         |                                      | 8P                      | 7.9                                    | 87                           |                                      | 2.0                                                                 | 26.5                                                       |
| 1411 1001410              |                                                               |                                                         |                                      | 10P                     | 9.0                                    | 100                          |                                      | 1.9                                                                 | 32.4                                                       |
| 1411 1001412              |                                                               |                                                         |                                      | 12P                     | 9.3                                    | 110                          |                                      | 1.8                                                                 | 37.8                                                       |
| 1411 1001416              | 0.25mm <sup>2</sup> /<br>24AWG                                | 14/0.15<br>(0.65mm)                                     | 1.15                                 | 16P                     | 10.1                                   | 135                          | 75.4                                 | 1.6                                                                 | 47.1                                                       |
| 1411 1001420              |                                                               |                                                         |                                      | 20P                     | 12.5                                   | 177                          |                                      | 1.5                                                                 | 57.8                                                       |
| 1411 1002501              |                                                               |                                                         |                                      | 1P                      | 4.5                                    | 30                           |                                      | 6.1                                                                 | 9.8                                                        |
| 1411 1002502              |                                                               |                                                         |                                      | 2P                      | 6.1                                    | 53                           |                                      | 4.5                                                                 | 12.6                                                       |
| 1411 1002503              |                                                               |                                                         |                                      | 3P                      | 6.4                                    | 60                           |                                      | 4.0                                                                 | 16.4                                                       |
| 1411 1002504              |                                                               |                                                         |                                      | 4P                      | 6.9                                    | 72                           |                                      | 3.6                                                                 | 20.3                                                       |
| 1411 1002505              |                                                               |                                                         |                                      | 5P                      | 7.7                                    | 86                           |                                      | 3.3                                                                 | 24.0                                                       |
| 1411 1002506              |                                                               |                                                         |                                      | 6P                      | 8.3                                    | 100                          |                                      | 3.1                                                                 | 26.5                                                       |
| 1411 1002507              |                                                               |                                                         |                                      | 7P                      | 8.3                                    | 98                           |                                      | 3.0                                                                 | 29.6                                                       |
| 1411 1002508              |                                                               |                                                         |                                      | 8P                      | 8.9                                    | 118                          |                                      | 2.8                                                                 | 33.4                                                       |
| 1411 1002510              | 0.34mm <sup>2</sup> /<br>22AWG                                | 19/0.15<br>(0.8mm)                                      | 1.3                                  | 10P                     | 10.0                                   | 132                          | 55.4                                 | 2.7                                                                 | 39.7                                                       |
| 1411 1002512              |                                                               |                                                         |                                      | 12P                     | 10.5                                   | 151                          |                                      | 2.5                                                                 | 47.5                                                       |
| 1411 1002516              |                                                               |                                                         |                                      | 16P                     | 11.4                                   | 188                          |                                      | 2.3                                                                 | 59.4                                                       |
| 1411 1002520              |                                                               |                                                         |                                      | 20P                     | 14.0                                   | 242                          |                                      | 2.2                                                                 | 73.2                                                       |
| 1411 1003401              |                                                               |                                                         |                                      | 1P                      | 4.8                                    | 34                           |                                      | 7.5                                                                 | 10.5                                                       |
| 1411 1003402              |                                                               |                                                         |                                      | 2P                      | 6.6                                    | 63                           |                                      | 5.6                                                                 | 14.2                                                       |
| 1411 1003403              |                                                               |                                                         |                                      | 3P                      | 7.0                                    | 73                           |                                      | 4.9                                                                 | 18.5                                                       |
| 1411 1003404              |                                                               |                                                         |                                      | 4P                      | 7.7                                    | 87                           |                                      | 4.5                                                                 | 24.0                                                       |
| 1411 1003405              |                                                               |                                                         |                                      | 5P                      | 8.4                                    | 104                          |                                      | 4.2                                                                 | 27.6                                                       |
| 1411 1003406              |                                                               |                                                         |                                      | 6P                      | 9.2                                    | 125                          |                                      | 3.9                                                                 | 30.7                                                       |
| 1411 1003407              | 0.34mm <sup>2</sup> /<br>22AWG                                | 19/0.15<br>(0.8mm)                                      | 1.3                                  | 7P                      | 9.2                                    | 122                          |                                      | 3.7                                                                 | 35.0                                                       |
| 1411 1003408              |                                                               |                                                         |                                      | 8P                      | 9.8                                    | 145                          |                                      | 3.5                                                                 | 38.8                                                       |
| 1411 1003410              |                                                               |                                                         |                                      | 10P                     | 11.1                                   | 164                          |                                      | 3.3                                                                 | 47.3                                                       |
| 1411 1003412              |                                                               |                                                         |                                      | 12P                     | 11.5                                   | 184                          |                                      | 3.1                                                                 | 56.5                                                       |
| 1411 1003416              |                                                               |                                                         |                                      | 16P                     | 12.8                                   | 236                          |                                      | 2.8                                                                 | 71.3                                                       |
| 1411 1003420              |                                                               |                                                         |                                      | 20P                     | 15.5                                   | 303                          |                                      | 2.7                                                                 | 87.0                                                       |

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

※本カタログの許容電流値はエアーフリー・周囲温度30℃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℃ in the air.

■温度減少係数 Temperature Correction Factor

| 温度(℃)<br>Ambient temperature | 20   | 21~25 | 26~30 | 31~35 | 36~40 | 41~45 | 46~50 | 51~55 | 56~60 | 61~65 | 66~70 |
|------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 係数<br>Correction factor      | 1.10 | 1.05  | 1.00  | 0.95  | 0.89  | 0.84  | 0.77  | 0.71  | 0.63  | 0.55  | 0.45  |