

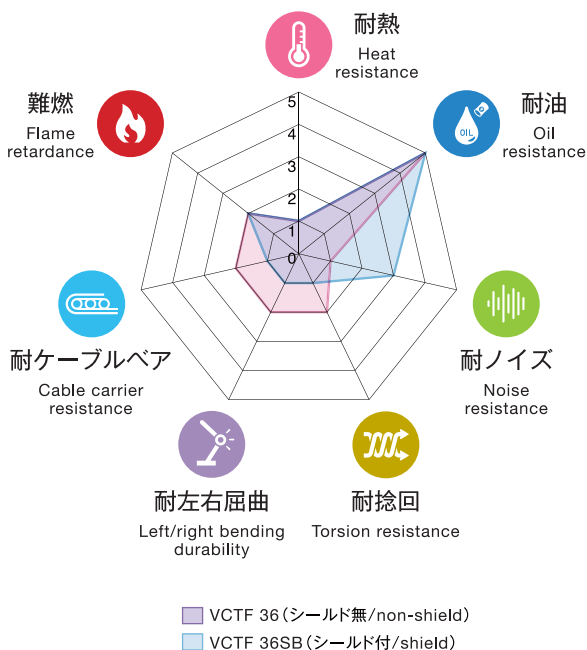
# VCTF 36 VCTF 36SB

FOブレン



## 特性レーダーチャート

Characteristics Radar chart of Cable



## 製品仕様

Specification

### 特長 / Features

- 柔軟・耐油性  
Flexibility, oil resistance
- 耐ノイズ性 (シールド付:VCTF 36SB)  
Shield type (VCTF 36SB) : noise resistance

### 使用温度範囲 / Temperature range

- 固定時 / Fixed: -30~60°C ※  
※0°C以下でご使用の際は、衝撃・屈曲・振動等の外的力が加わらないようにしてください。  
If you use it in temperature less than 0°C, you should be careful about shocks, flexure, vibration and so on.

### 曲げ半径 / Bending radius

- 固定時: ケーブル外径の4倍以上推奨  
Fixed: 4 times or more of the cable diameter

## テクニカルデータ / Technical data

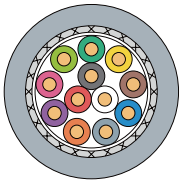
|                           |   |
|---------------------------|---|
| 適用規格/Adaptation standard  | (PS)E<br>電気用品安全法/Electrical Appliance and Material Safety Law ※ |
| ケーブルタイプ/Cable designation | VCTF  |
| 適用サイズ/Adaptation size     | 0.75~2mm ※  |
| 定格電圧/Voltage rating       | 300V  |
| 定格温度/Temperature rating   | 60°C  |
| 試験電圧/Test voltage         | AC 2000V・1min   |
| 難燃性/Flame retardance      | 60°傾斜/60°Angle  |

※0.5mmは電気用品安全法が適用されませんので、信号及び通信回路などの弱電流回路にご使用ください。

0.5mm of VCTF 36 and VCTF 36SB are excluded to "Electrical Appliance and Material Safety Law", for this reason, those cable sizes should be used for cable connection to signal and communication circuits and other weak current electrical circuits in JAPAN.

| 構造概略 / Construction |  |   |
|---------------------|--|---|
| 品名/Code             | VCTF 36  | VCTF 36SB   |
| 導体/Conductor        | 軟銅集合線/Strands of wire composed of annealed copper                |   |
| 絶縁体/Insulation      | ビニル混合物/PVC   |   |
| より合わせ/Assembly      | 線心を円形により合わせ/Circular   |   |
| テープ/Tape            | -  | 5心以上はテープを重ね巻き<br>Tape wrap around cores if conductors are 5 or more |
| シールド/Shield         | -  | すずめっき軟銅線編組/Tin coated annealed copper braid                         |
| シース/Sheath          | 耐油性ビニル混合物(黒色又はライトグレー)<br>Oil resistant PVC (black or light gray) | 耐油性ビニル混合物(黒色)<br>Oil resistant PVC (black)                          |

例示 / Example [VCTF 36SB 12×0.75mm]



**印刷表示 / Surface printing**

VCTF 36SB (PS) E JET KURAMO 300V FOブレン(耐油型)0.75mm LF

VCTF 36

| 線心数 / No. of conductors | 線心識別方式 / Conductors identification |  |
|-------------------------|------------------------------------|--|
| 2心 / 2                  | 絶縁体着色方式<br>Identification by color | <br>黒 Black 白 White  |
| 3心 / 3                  |                                    | <br>黒 Black 白 White 赤 Red  |
| 4心 / 4                  |                                    | <br>黒 Black 白 White 赤 Red 緑 Green 又は<br><br>黒 Black 白 White 赤 Red 緑/黄 Green/Yellow |

● 緑/黄:緑色と黄色のストライプ(色配分 緑60:黄40)  
Green/yellow:Green/yellow strips (by the circumference, the covered of green and yellow is 60 to 40)

VCTF 36SB

| 線心数 / No. of conductors | 線心識別方式 / Conductors identification   |  |
|-------------------------|--------------------------------------|--|
| 12心以下 / 12 or less      | 絶縁体着色方式<br>Identification by color   | <br>黒 Black 白 White 赤 Red 緑 Green 黄 Yellow 茶 Brown 青 Blue 灰 Gray 橙 Orange 紫 Purple 桃 Pink 若草 Light green         |
| 13心以上 / 13 or more      | ナンバリング方式<br>Identification by number | 白色絶縁体上の青色ナンバリング<br>White insulations<br>(blue ink numbering is printed on the surface of white color insulation) |

VCTF 36SB

構造表 / Construction table

| 導体 / Conductor                           |  | 絶縁 / Insulation                    | 心数<br>Number of<br>conductors | シールド無し / Non-shield                          |                                    | シールド付き / Shield                              |                                    | 許容電流<br>Allowable<br>ampacity<br>(A) |
|--|--|------------------------------------|-------------------------------|--|------------------------------------|--|------------------------------------|--------------------------------------|
| 公称断面積<br>Nominal cross<br>sectional area | 外径(約mm)<br>Diameter<br>(Approx.mm)<br>{ 構成<br>Construction } | 外径(約mm)<br>Diameter<br>(Approx.mm) |                               | シース外径(約mm)<br>Sheath diameter<br>(Approx.mm) | 概算重量<br>Approx.weight<br>(kg / km) | シース外径(約mm)<br>Sheath diameter<br>(Approx.mm) | 概算重量<br>Approx.weight<br>(kg / km) |                                      |
| 0.5mm <sup>2</sup>                       | 0.9<br>{20/0.18}   | 1.9                                | 2                             | 5.8  | 45                                 | 6.5  | 65                                 | 5                                    |
|  |  |                                    | 3                             | 6.1  | 55                                 | 6.8  | 70                                 | 5                                    |
|  |  |                                    | 4                             | 6.6  | 65                                 | 7.3  | 85                                 | 5                                    |
|  |  |                                    | 5                             |  |                                    | 7.7  | 90                                 | 4                                    |
|  |  |                                    | 6                             |  |                                    | 8.3  | 105                                | 4                                    |
|  |  |                                    | 7                             |  |                                    | 8.3  | 105                                | 4                                    |
|  |  |                                    | 8                             |  |                                    | 9.1  | 120                                | 4                                    |
|  |  |                                    | 10                            |  |                                    | 10.5   | 150                                | 3                                    |
|  |  |                                    | 12                            |  |                                    | 10.5   | 165                                | 3                                    |
|  |  |                                    | 14                            |  |                                    | 11.0   | 185                                | 3                                    |
|  |  |                                    | 15                            |  |                                    | 11.5   | 195                                | 3                                    |
|  |  |                                    | 16                            |  |                                    | 11.5   | 205                                | 3                                    |
|  |  |                                    | 20                            |  |                                    | 13.0   | 245                                | 3                                    |
|  |  |                                    | 24                            |  |                                    | 14.5   | 295                                | 2                                    |
|  |  |                                    | 25                            |  |                                    | 14.5   | 305                                | 2                                    |
|  |  |                                    | 26                            |  |                                    | 14.5   | 310                                | 2                                    |
|  |  |                                    | 30                            |  |                                    | 15.0   | 345                                | 2                                    |
|  |  |                                    | 40                            |  |                                    | 17.5   | 450                                | 2                                    |
|  |  |                                    | 50                            |  |                                    | 19.0   | 560                                | 2                                    |
| 60                                       |  |                                    | 20.5                          | 660  | 1                                  |  |                                    |                                      |
| 0.75mm <sup>2</sup>                      | 1.1<br>{30/0.18}   | 2.3                                | 2                             | 6.6  | 60                                 | 7.3  | 80                                 | 7                                    |
|  |  |                                    | 3                             | 7.0  | 75                                 | 7.7  | 95                                 | 7                                    |
|  |  |                                    | 4                             | 7.6  | 90                                 | 8.3  | 110                                | 7                                    |
|  |  |                                    | 5                             |  |                                    | 8.8  | 115                                | 6                                    |
|  |  |                                    | 6                             |  |                                    | 9.5  | 135                                | 6                                    |
|  |  |                                    | 7                             |  |                                    | 9.5  | 140                                | 5                                    |
|  |  |                                    | 8                             |  |                                    | 10.5   | 165                                | 5                                    |
|  |  |                                    | 10                            |  |                                    | 12.0   | 205                                | 5                                    |
|  |  |                                    | 12                            |  |                                    | 12.0   | 220                                | 4                                    |
|  |  |                                    | 14                            |  |                                    | 13.0   | 250                                | 4                                    |
|  |  |                                    | 15                            |  |                                    | 13.0   | 270                                | 4                                    |
|  |  |                                    | 16                            |  |                                    | 14.0   | 290                                | 4                                    |
|  |  |                                    | 20                            |  |                                    | 15.0   | 345                                | 4                                    |
|  |  |                                    | 24                            |  |                                    | 17.0   | 415                                | 3                                    |
|  |  |                                    | 25                            |  |                                    | 17.0   | 425                                | 3                                    |
|  |  |                                    | 26                            |  |                                    | 17.0   | 430                                | 3                                    |
|  |  |                                    | 30                            |  |                                    | 17.5   | 490                                | 3                                    |
|  |  |                                    | 40                            |  |                                    | 20.5   | 650                                | 3                                    |
|  |  |                                    | 50                            |  |                                    | 22.5   | 790                                | 2                                    |
| 60                                       |  |                                    | 24.5                          | 940  | 2                                  |  |                                    |                                      |

構造表 / Construction table

| 導体 / Conductor                           |  | 絶縁 / Insulation                    | 心数<br>Number of<br>conductors | シールド無し / Non-shield                          |                                    | シールド付き / Shield                              |                                    | 許容電流<br>Allowable<br>ampacity<br>(A) |
|--|--|------------------------------------|-------------------------------|--|------------------------------------|--|------------------------------------|--------------------------------------|
| 公称断面積<br>Nominal cross<br>sectional area | 外径(約mm)<br>Diameter<br>(Approx.mm)<br>構成<br>{ Construction } | 外径(約mm)<br>Diameter<br>(Approx.mm) |                               | シース外径(約mm)<br>Sheath diameter<br>(Approx.mm) | 概算重量<br>Approx.weight<br>(kg / km) | シース外径(約mm)<br>Sheath diameter<br>(Approx.mm) | 概算重量<br>Approx.weight<br>(kg / km) |                                      |
| 1.25mm <sup>2</sup>                      | 1.5<br>{50/0.18}   | 2.7                                | 2                             | 7.4  | 80                                 | 8.1  | 105                                | 12                                   |
|  |  |                                    | 3                             | 7.8  | 100                                | 8.5  | 120                                | 12                                   |
|  |  |                                    | 4                             | 8.5  | 120                                | 9.2  | 145                                | 12                                   |
|  |  |                                    | 5                             |  |                                    | 9.9  | 155                                | 9                                    |
|  |  |                                    | 6                             |  |                                    | 11.0   | 180                                | 8                                    |
|  |  |                                    | 7                             |  |                                    | 11.0   | 190                                | 7                                    |
|  |  |                                    | 8                             |  |                                    | 12.0   | 220                                | 7                                    |
|  |  |                                    | 10                            |  |                                    | 13.5   | 280                                | 7                                    |
|  |  |                                    | 12                            |  |                                    | 14.0   | 310                                | 6                                    |
|  |  |                                    | 14                            |  |                                    | 15.0   | 355                                | 6                                    |
|  |  |                                    | 15                            |  |                                    | 15.0   | 375                                | 6                                    |
|  |  |                                    | 16                            |  |                                    | 15.5   | 400                                | 6                                    |
|  |  |                                    | 20                            |  |                                    | 17.5   | 485                                | 5                                    |
|  |  |                                    | 24                            |  |                                    | 19.5   | 590                                | 5                                    |
|  |  |                                    | 25                            |  |                                    | 19.5   | 610                                | 5                                    |
|  |  |                                    | 26                            |  |                                    | 19.5   | 630                                | 4                                    |
|  |  |                                    | 30                            |  |                                    | 20.5   | 700                                | 4                                    |
| 40                                       |  |                                    | 23.5                          | 930  | 4                                  |  |                                    |                                      |
| 50                                       |  |                                    | 26.5                          | 1140   | 3                                  |  |                                    |                                      |
| 60                                       |  |                                    | 28.5                          | 1340   | 3                                  |  |                                    |                                      |
| 2mm <sup>2</sup>                         | 1.8<br>{37/0.26}   | 3.0                                | 2                             | 8.0  | 105                                | 8.7  | 125                                | 17                                   |
|  |  |                                    | 3                             | 8.5  | 125                                | 9.2  | 150                                | 17                                   |
|  |  |                                    | 4                             | 9.2  | 155                                | 9.9  | 180                                | 17                                   |
|  |  |                                    | 5                             |  |                                    | 11.0   | 200                                | 12                                   |
|  |  |                                    | 6                             |  |                                    | 11.5   | 235                                | 11                                   |
|  |  |                                    | 7                             |  |                                    | 11.5   | 250                                | 10                                   |
|  |  |                                    | 8                             |  |                                    | 13.0   | 290                                | 9                                    |
|  |  |                                    | 10                            |  |                                    | 15.0   | 370                                | 9                                    |
|  |  |                                    | 12                            |  |                                    | 15.5   | 415                                | 8                                    |
|  |  |                                    | 14                            |  |                                    | 16.5   | 475                                | 8                                    |
|  |  |                                    | 15                            |  |                                    | 16.5   | 510                                | 8                                    |
|  |  |                                    | 16                            |  |                                    | 17.0   | 540                                | 7                                    |
|  |  |                                    | 20                            |  |                                    | 19.5   | 670                                | 7                                    |
|  |  |                                    | 24                            |  |                                    | 21.5   | 800                                | 6                                    |
|  |  |                                    | 25                            |  |                                    | 21.5   | 830                                | 6                                    |
|  |  |                                    | 26                            |  |                                    | 21.5   | 850                                | 6                                    |
|  |  |                                    | 30                            |  |                                    | 22.5   | 950                                | 6                                    |
| 40                                       |  |                                    | 26.0                          | 1260   | 5                                  |  |                                    |                                      |
| 50                                       |  |                                    | 29.5                          | 1550   | 4                                  |  |                                    |                                      |
| 60                                       |  |                                    | 31.5                          | 1840   | 4                                  |  |                                    |                                      |

・許容電流値は、JCS0168により周囲温度30°C、空中1条布設時の計算値を示し、保証値ではありません。

Allowable ampacity (A) for cable is based on calculation by JCS0168 under aerial one-cable and temperature at 30°C, not representing a guaranteed value.

・周囲温度30°C以上及び多条布設の場合には、技術資料(P183)の表1の電流減少係数及び低減率を許容電流値に乘じてください。

Allowable ampacity cable at ambient temperature above 30°C and multiple cables installed is to be determined by multiplying the current value by the appropriate current reduction factor in the following table 1 of the technical information (P183).