

VCT 531BX

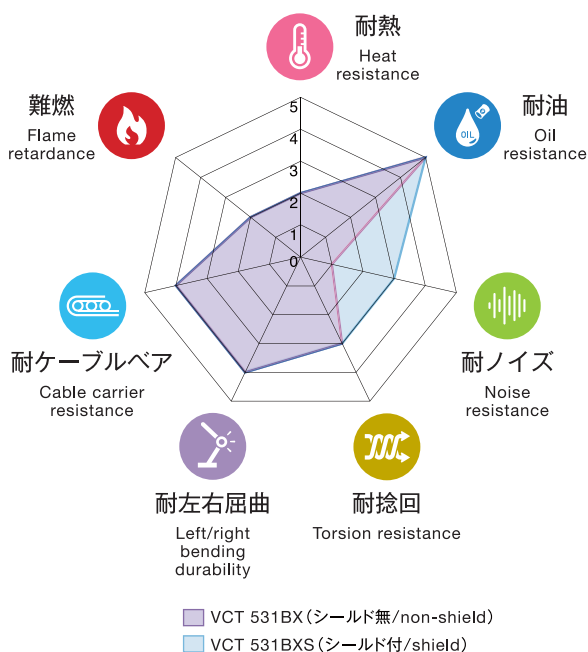
VCT 531BXS

ハイブレン



特性レーダーチャート

Characteristics Radar chart of Cable



製品仕様

Specification

特長 / Features

- 編組導体による高屈曲・高柔軟性
High flexibility and high bending durability with braided conductor
- 耐油・耐熱性
Oil resistance, heat resistance

使用温度範囲 / Temperature range

- 固定時 / Fixed: -30~75°C ※
- 可動時 / Flexing: 0~75°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
- 可動時：ケーブル外径の7.5倍以上推奨
Flexing: 7.5 times or more of the cable diameter

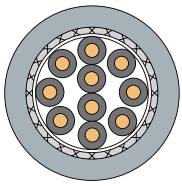
テクニカルデータ / Technical data

| | |
|---------------------------|----------------|
| 適用規格/Adaptation standard | -※ |
| ケーブルタイプ/Cable designation | VCT |
| 適用サイズ/Adaptation size | -※ |
| 定格電圧/Voltage rating | 600V |
| 定格温度/Temperature rating | 75°C |
| 試験電圧/Test voltage | AC 3000V・1min |
| 難燃性/Flame retardance | 60°傾斜/60°Angle |

※VCT 531BX, VCT 531BXSは、編組導体を使用しているため、電気用品安全法が適用されません。
VCT 531BX and VCT 531BXS are excluded to "Electrical Appliance and Material Safety Law" because this law doesn't permit the conductor called "Annealed braided copper".

| 構造概略 / Construction | | |
|---------------------|---|---|
| 品名/Code | VCT 531BX | VCT 531BXS |
| 導体/Conductor | 軟銅編組線 (中心補強紐入り) / Annealed braided copper (containing reinforcement cord at its center) | |
| 絶縁体/Insulation | 耐熱性ビニル混合物 / Heat resistant PVC | |
| より合わせ/Assembly | 線心を円形により合わせ / Circular | |
| テープ/Tape | 10心以上はテープを重ね巻き Tape wrap around cores if conductors are 10 or more | 5心以上はテープを重ね巻き / 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・耐熱性ビニル混合物 (黒色) / Oil and heat resistant PVC (black) | |

例示 / Example [VCT 531BXS 10×0.75mm]



印刷表示 / Surface printing
 VCT 531BXS KURAMO しゃへい付 ハイブレン (耐屈曲 耐油型) 0.75mm LF

| 線心数 / No. of conductors | 線心識別方式 / Conductors identification | |
|-------------------------|--------------------------------------|---|
| 4心以下 / 4 or less | 絶縁体着色方式 Identification by color | 黒 白 赤 緑 Black White Red Green |
| 5心以上 / 5 or more | ナンバリング方式 Identification by number | 黒色絶縁体上の白色ナンバリング Black insulations (white ink numbering is printed on the surface of black color insulation) |

VCT 531BX
VCT 531BXS

構造表 / Construction table

| 導体 / Conductor | | 絶縁 / Insulation | 心数 Number of conductors | シールド無し / Non-shield | | シールド付き / Shield | | 許容電流 Allowable ampacity (A) |
|--|--|------------------------------------|-------------------------------|--|------------------------------------|--|------------------------------------|--------------------------------------|
| 公称断面積 Nominal cross sectional area | 外径(約mm) Diameter (Approx.mm) { 構成 Construction } | 外径(約mm) Diameter (Approx.mm) | | シース外径(約mm) Sheath diameter (Approx.mm) | 概算重量 Approx.weight (kg / km) | シース外径(約mm) Sheath diameter (Approx.mm) | 概算重量 Approx.weight (kg / km) | |
| 0.75mm ² | 1.6 (96/0.10) | 3.2 | 2 | 9.6 | 115 | 11.0 | 145 | 14 |
| | | | 3 | 10.5 | 135 | 11.5 | 160 | 12 |
| | | | 4 | 11.5 | 160 | 12.5 | 190 | 11 |
| | | | 5 | 12.5 | 190 | / | / | 9 |
| | | | 6 | 13.5 | 220 | 14.5 | 230 | 8 |
| | | | 7 | 14.5 | 255 | 15.5 | 270 | 7 |
| | | | 8 | 16.0 | 290 | 16.5 | 300 | 7 |
| | | | 10 | 17.5 | 320 | 18.0 | 355 | 7 |
| | | | 12 | 18.0 | 355 | / | / | 6 |
| | | | 16 | 20.0 | 445 | 20.5 | 495 | 6 |
| | | | 20 | 22.0 | 540 | 23.0 | 600 | 5 |
| | | | 24 | 25.0 | 670 | / | / | 5 |
| | | | 30 | 26.0 | 770 | 26.5 | 830 | 5 |
| 1.25mm ² | 2.2 (112/0.12) | 3.6 | 2 | 10.5 | 140 | 11.5 | 170 | 19 |
| | | | 3 | 11.5 | 165 | 12.5 | 200 | 17 |
| | | | 4 | 12.5 | 200 | 13.5 | 230 | 16 |
| | | | 5 | 14.0 | 240 | / | / | 14 |
| | | | 6 | 15.0 | 275 | 15.0 | 275 | 12 |
| | | | 7 | 16.0 | 320 | 17.0 | 340 | 11 |
| | | | 8 | 17.5 | 365 | 17.5 | 365 | 9 |
| | | | 10 | 19.0 | 390 | 19.0 | 430 | 9 |
| | | | 12 | 19.5 | 445 | / | / | 8 |
| | | | 16 | 21.5 | 570 | 22.0 | 620 | 8 |
| | | | 20 | 24.5 | 700 | 25.0 | 760 | 7 |
| | | | 24 | 26.5 | 830 | / | / | 6 |
| | | | 30 | 28.5 | 970 | 29.0 | 1050 | 6 |
| 40 | 34.0 | 1410 | / | / | 6 | | | |
| 2mm ² | 2.4 (176/0.12) | 4.0 | 2 | 11.0 | 170 | 13.0 | 210 | 27 |
| | | | 3 | 12.5 | 210 | 13.5 | 250 | 23 |
| | | | 4 | 13.5 | 250 | 14.5 | 285 | 20 |
| | | | 5 | 15.0 | 305 | / | / | 19 |
| | | | 6 | 16.5 | 360 | 17.0 | 400 | 16 |
| | | | 7 | 17.5 | 415 | 18.5 | 425 | 14 |
| | | | 8 | 19.0 | 475 | 19.5 | 490 | 13 |
| | | | 10 | 21.0 | 530 | 21.5 | 570 | 13 |
| | | | 12 | 21.0 | 580 | / | / | 12 |
| | | | 16 | 24.5 | 770 | 25.0 | 830 | 11 |
| | | | 20 | 26.5 | 930 | 27.0 | 1000 | 9 |
| | | | 24 | 30.0 | 1140 | / | / | 8 |
| | | | 30 | 31.5 | 1340 | 32.5 | 1430 | 8 |
| 3.5mm ² | 3.6 (312/0.12) | 5.2 | 4 | 17.0 | 395 | / | / | 30 |
| 5.5mm ² | 4.0 (480/0.12) | 6.0 | 4 | 19.0 | 540 | / | / | 39 |

- ・本製品は編組導体を採用しており、通常の導体外径より大きくなっております。
Conductor of VCT 531BX and VCT 531BXS are larger than conductors of regular VCT cables, because those conductors use "Annealed braided copper".
- ・圧着端子など加工の際には導体外径等をご確認ください。
Please check a conductor diameter etc. , if crimping the terminal.
- ・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3の電流減少係数及び低減率を許容電流値に乗じてください。
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 3 of the technical information (P183).