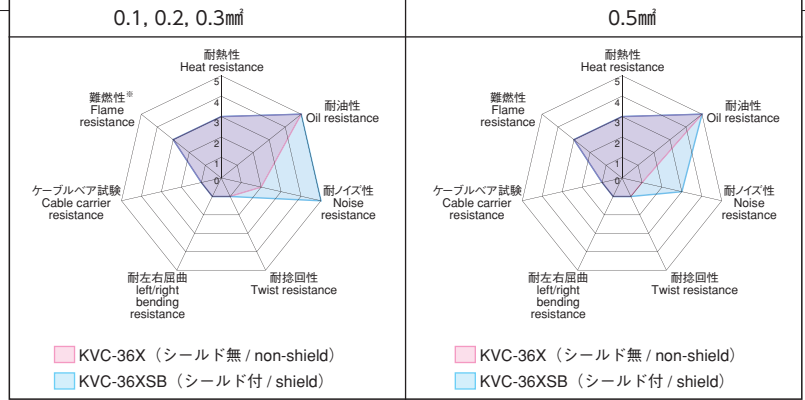


KVC-36X KVC-36XSB

クラモ電子機器配線用ケーブル (シースつや消し)
KURAMO Electronic Equipment Connection Cable (Sheath mat type)
UL AWM 2936/2576/2937/2935

特性レーダーチャート / Characteristics Rader chart of Cable



※サイズによって難燃レベルが異なります。テクニカルデータの“難燃性”をご参照ください。
Flame resistance level of cable varies according to size. Refer to "Flame resistance" in [Technical data] given below.

用途 / Use

- 工作機械の制御回路への配線
Wiring to machine tool's control circuits
- 油環境下での配線
Wiring in oil environment
- 耐ノイズ性要求箇所への配線 (シールド付タイプ : KVC-36XSB)
Wiring to the portion requiring noise resistance (Shielded type : KVC-36XSB)

特長 / Features

- シースつや消し
Sheath mat type
- 耐ノイズ性 (シールド付タイプ : KVC-36XSB)
Noise resistant (Shielded type : KVC-36XSB)
- 柔軟性
Flexible
- 耐油性
Oil resistance
- UL・cUL 規格ケーブル
Cables designed to UL, cUL standards

認証 / Approvals



使用温度範囲 / Temperature range

- 固定時 / Fixed : -40 ~ 80℃ ※
- ※ 0℃以下でご利用の際は、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℃, 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

RoHS 指令 / RoHS Directive

- 適合 / Conformity

■ テクニカルデータ / Technical data

■ 構造概略 / Construction

■ 線心識別 / Conductors identification

KVC-36, KVC-36SB と同じ (詳細は、KVC-36, KVC-36SB をご参照ください。)
KVC-36X is the same as KVC-36 and KVC-36XSB is the same as KVC-36SB.
(For details, refer to KVC-36 and KVC-36SB)

■ 構造表 / Construction table

| 導体 / Conductor | | 絶縁 / Insulation | | 在庫 / Stocks * | | シールド無し / Non-shield | | シールド付き / Shield | | 電気特性 / Electrical characteristics | | |
|---------------------------------------|--|----------------------------------|----------------------------|---------------------|-----------------|--|--------------------------------|--|--------------------------------|-----------------------------------|---|---|
| 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) | 心数 Number of conductors | シールド無 Non-shield | シールド付 Shield | 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) | 許容電流 Allowable ampacity (A) | 導体抵抗 Conductor resistance 20℃ (Ω / km) | 絶縁抵抗 Insulation resistance 20℃ (M Ωkm) |
| 0.1mm <28AWG> | 0.38 <7/0.127> | 0.88 | 2 (1P) | | | 2.8 | 8 | 3.6 | 18 | 3 | 231 以下 (Max 231) | 50 以上 (Min 50) |
| | | | 3 | | | 2.9 | 10 | 3.7 | 20 | 3 | | |
| | | | 4 (2P) | | | 4.7 | 21 | 5.3 | 35 | 3 | | |
| | | | 5 (2P+1) | | | 5.0 | 24 | 5.5 | 35 | 3 | | |
| | | | 6 (3P) | | | 5.1 | 25 | 5.6 | 40 | 2 | | |
| | | | 7 (3P+1) | | | 5.2 | 28 | 5.7 | 40 | 2 | | |
| | | | 8 (4P) | | | 5.5 | 29 | 5.8 | 45 | 2 | | |
| | | | 10 (5P) | | | 5.9 | 35 | 6.2 | 50 | 2 | | |
| | | | 12 (6P) | | | 6.3 | 40 | 6.7 | 55 | 2 | | |
| | | | 14 (7P) | | | 6.5 | 45 | 7.0 | 60 | 2 | | |
| | | | 15 (7P+1) | | | 6.6 | 46 | 7.1 | 65 | 2 | | |
| | | | 16 (8P) | | | 6.9 | 50 | 7.4 | 65 | 2 | | |
| | | | 20 (10P) | | | 7.8 | 60 | 8.1 | 75 | 2 | | |
| | | | 24 (12P) | | | 8.2 | 70 | 8.7 | 90 | 1 | | |
| | | | 26 (13P) | | | 8.5 | 70 | 9.4 | 100 | 1 | | |
| | | | 30 (15P) | | | 8.5 | 75 | 9.3 | 105 | 1 | | |
| | | | 36 (18P) | | | 9.6 | 90 | 10.0 | 120 | 1 | | |
| | | | 40 (20P) | | | 9.8 | 95 | 10.5 | 130 | 1 | | |
| 50 (25P) | | | 11.0 | 125 | 11.5 | 150 | 1 | | | | | |
| 60 (30P) | | | 11.5 | 140 | 12.5 | 175 | 1 | | | | | |

※ 0.1mmは受注生産品です / 0.1mm (28AWG) cable are custom order production

■ 構造表 / Construction table

| 導体 / Conductor | | 絶縁 / Insulation | | 在庫 / Stocks | | シールド無し / Non-shield | | シールド付き / Shield | | 電気特性 / Electrical characteristics | | |
|--|---|-------------------------------------|-------------------------------|---------------------|-----------------|---|-----------------------------------|---|-----------------------------------|--------------------------------------|--|--|
| 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) | 心数 Number of conductors | シールド無 Non-shield | シールド付 Shield | 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) | 許容電流 Allowable ampacity (A) | 導体抵抗 Conductor resistance 20°C (Ω / km) | 絶縁抵抗 Insulation resistance 20°C (M Ωkm) |
| 0.2mm ² <25AWG> | 0.54 <7/0.18> | 1.05 | 2 (1P) | ○ | ○ | 3.1 | 13 | 3.9 | 21 | 5 | 113 以下 (Max 113) | 50 以上 (Min 50) |
| | | | 3 | ○ | ○ | 3.3 | 16 | 4.1 | 24 | 4 | | |
| | | | 4 (2P) | ○ | ○ | 5.2 | 27 | 5.7 | 40 | 4 | | |
| | | | 5 (2P+1) | | | 5.3 | 29 | 5.8 | 45 | 4 | | |
| | | | 6 (3P) | ○ | ○ | 5.4 | 35 | 5.9 | 45 | 4 | | |
| | | | 7 (3P+1) | | | 5.5 | 35 | 6.0 | 50 | 3 | | |
| | | | 8 (4P) | ○ | ○ | 5.9 | 40 | 6.4 | 55 | 3 | | |
| | | | 10 (5P) | ○ | ○ | 6.3 | 50 | 6.8 | 65 | 3 | | |
| | | | 12 (6P) | ○ | ○ | 7.0 | 55 | 7.5 | 75 | 3 | | |
| | | | 14 (7P) | | | 7.2 | 60 | 7.7 | 80 | 3 | | |
| | | | 15 (7P+1) | | | 7.3 | | 7.8 | 80 | 3 | | |
| | | | 16 (8P) | ○ | ○ | 7.7 | 70 | 8.2 | 90 | 3 | | |
| | | | 20 (10P) | ○ | ○ | 8.5 | 85 | 9.0 | 105 | 2 | | |
| | | | 24 (12P) | ○ | ○ | 8.9 | 95 | 9.1 | 115 | 2 | | |
| | | | 26 (13P) | ○ | ○ | 9.6 | 105 | 10.0 | 125 | 2 | | |
| | | | 30 (15P) | ○ | ○ | 9.7 | 115 | 10.0 | 140 | 2 | | |
| | | | 36 (18P) | | | 10.5 | 135 | 11.0 | 160 | 2 | | |
| 40 (20P) | ○ | ○ | 11.0 | 145 | 11.5 | 170 | 2 | | | | | |
| 50 (25P) | | | 12.5 | 175 | 12.5 | 205 | 2 | | | | | |
| 60 (30P) | | | 13.5 | 205 | 14.0 | 245 | 2 | | | | | |
| 0.3mm ² <23AWG> | 0.7 <12/0.18> | 1.3 | 2 (1P) | ○ | ○ | 3.7 | 20 | 4.6 | 28 | 7 | 62.3 以下 (Max 62.3) | 50 以上 (Min 50) |
| | | | 3 | ○ | ○ | 4.0 | 25 | 4.8 | 35 | 6 | | |
| | | | 4 (2P) | ○ | ○ | 5.7 | 35 | 6.2 | 50 | 6 | | |
| | | | 5 (2P+1) | | | 5.9 | 40 | 6.4 | 55 | 5 | | |
| | | | 6 (3P) | ○ | ○ | 6.6 | 50 | 7.1 | 70 | 5 | | |
| | | | 7 (3P+1) | | | 6.7 | 55 | 7.2 | 70 | 5 | | |
| | | | 8 (4P) | ○ | ○ | 7.3 | 65 | 7.8 | 85 | 5 | | |
| | | | 10 (5P) | ○ | ○ | 8.0 | 75 | 8.5 | 100 | 4 | | |
| | | | 12 (6P) | ○ | ○ | 8.8 | 90 | 9.3 | 115 | 4 | | |
| | | | 14 (7P) | ○ | | 8.9 | 95 | 9.4 | 120 | 4 | | |
| | | | 15 (7P+1) | | | 9.0 | 100 | 9.5 | 125 | 4 | | |
| | | | 16 (8P) | ○ | ○ | 9.5 | 110 | 10.0 | 135 | 4 | | |
| | | | 20 (10P) | ○ | ○ | 11.0 | 140 | 11.5 | 170 | 4 | | |
| | | | 24 (12P) | ○ | ○ | 11.5 | 155 | 12.0 | 185 | 3 | | |
| | | | 26 (13P) | | | 12.5 | 165 | 12.5 | 200 | 3 | | |
| | | | 30 (15P) | ○ | ○ | 12.5 | 185 | 13.0 | 215 | 3 | | |
| | | | 36 (18P) | | | 13.5 | 220 | 14.0 | 255 | 3 | | |
| 40 (20P) | ○ | ○ | 14.0 | 235 | 14.5 | 275 | 3 | | | | | |
| 50 (25P) | | | 15.5 | 295 | 15.5 | 335 | 3 | | | | | |
| 60 (30P) | | | 16.5 | 340 | 17.0 | 385 | 2 | | | | | |
| 0.5mm ² <20AWG> | 0.95 <22/0.18> | 1.65 | 2 | ○ | ○ | 4.8 | 28 | 5.6 | 45 | 10 | 34.3 以下 (Max 34.3) | 50 以上 (Min 50) |
| | | | 3 | ○ | ○ | 5.1 | 40 | 5.9 | 50 | 9 | | |
| | | | 4 | ○ | ○ | 5.5 | 45 | 6.3 | 60 | 8 | | |
| | | | 5 | ○ | | 6.5 | 65 | 7.0 | 80 | 7 | | |
| | | | 6 | ○ | ○ | 7.2 | 75 | 7.7 | 95 | 7 | | |
| | | | 7 | | | 7.2 | 80 | 7.7 | 100 | 7 | | |
| | | | 8 | ○ | ○ | 7.7 | 90 | 8.2 | 115 | 6 | | |
| | | | 10 | ○ | ○ | 8.8 | 115 | 9.3 | 140 | 6 | | |
| | | | 12 | | | 9.1 | 125 | 9.6 | 150 | 6 | | |
| | | | 14 | | | 9.5 | 140 | 10.0 | 165 | 5 | | |
| | | | 15 | | | 9.7 | 150 | 10.5 | 175 | 5 | | |
| | | | 16 | | | 10.0 | 160 | 10.5 | 190 | 5 | | |
| | | | 20 | ○ | | 11.0 | 195 | 11.5 | 225 | 5 | | |
| | | | 24 | | | 12.5 | 235 | 12.5 | 265 | 5 | | |
| | | | 25 | | | 12.5 | 240 | 13.0 | 275 | 4 | | |
| | | | 26 | | | 12.5 | 250 | 13.0 | 280 | 4 | | |
| | | | 30 | | | 13.0 | 280 | 13.5 | 310 | 4 | | |
| 40 | | | 15.0 | 365 | 15.5 | 400 | 4 | | | | | |
| 50 | | | 16.5 | 445 | 17.0 | 490 | 4 | | | | | |
| 60 | | | 17.5 | 530 | 18.0 | 580 | 3 | | | | | |

○は在庫品です。/ ○ : Stocks

■ 許容電流について / Allowable ampacity

- 許容電流値は周囲温度 30°C、空中 1 条敷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 under aerial one-cable and temperature at 30°C, not representing a guaranteed value.
- 周囲温度 30°C 以上の場合、次の電流減少係数を表の値に乗じて下さい。
Allowable ampacity cable at ambient temperature above 30°C is to be determined by multiplying the current value by the appropriate current reduction factor in the following table1.
- 許容電流の値は、JCS0168 により算出した値であって、保証値ではありません。
The allowable ampacity for cable are the calculated by JCS0168, but not guaranteed.

JCS0168…日本電線工業会規格“33kV 以下電力ケーブルの許容電流計算”
“Calculation of the current rating of power cables for rated voltage up to and including 33kV”

■ 表 電流減少係数 / Table1 Current reduction factors

| 周囲温度 / Ambient temperature (°C) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 |
|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 電流減少係数 / Current reduction factors | 1.00 | 0.97 | 0.93 | 0.89 | 0.86 | 0.82 | 0.77 | 0.73 | 0.68 | 0.63 | 0.58 | 0.52 | 0.45 | 0.36 | 0.26 |

KVC-36X
KVC-36XSB

<P>SE

UL AWM

NFPA70
NFPA79

cUL/GSA

CE

CCC

GOST-R