

PVケーブル PV Cables

CV、HCV、EM CE/F
DC1500V PV-CC

太陽光発電システム用ケーブル (PVケーブル)

Cables for solar power generation systems (PV cables)

受注
生産Made to
orderRoHS2
対応

RoHS2 compliant

ハロゲンフリー対応
(EM CE/F、PV-CC)Halogen-free
(EM CE/F, PV-CC)

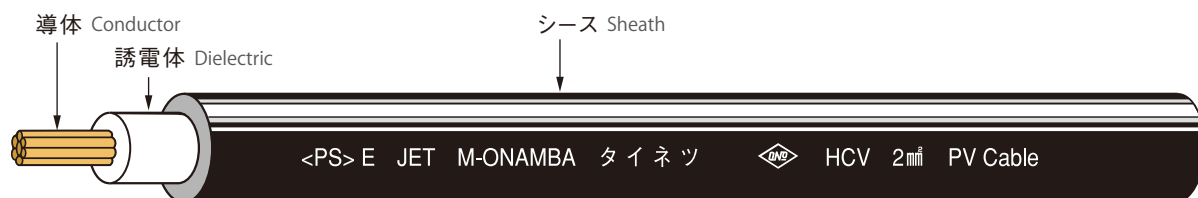
用途 Applications

- DC750V以下 (CV、HCV、EM CE/F) 及びDC1,500V以下 (PV-CC) の太陽光発電システムの太陽電池モジュール間、モジュールと接続箱間及び接続箱とパワーコンディショナー間の直流配線に使用されます。
- Used as DC cables that connect solar cell modules in solar power generation systems of 750 VDC or less (CV, HCV, EM CE/F) or 1,500 VDC or less (PV-CC), as well as connecting the modules to the connection box and the connection box to the power conditioner.

特長 Features

- 焼却処理をしても、ダイオキシンやハロゲンガスなどの有害ガスは発生しません。(EM CE/F、PV-CC)
- 燃焼時に発煙量が少なく、腐食性ガスは発生しません。(EM CE/F、PV-CC)
- 鉛などの重金属を含んでいないため、埋立処理をしても溶出の恐れがありません。(全品種)
- PV-CCは太陽光発電用途に特化したケーブルで、遮蔽無し構造で高圧領域のDC1,500Vまで使用できます。
- These products do not produce dioxins, halogen gas, or other toxic gases when they are incinerated for disposal. (EM CE/F, PV-CC)
- The amount of smoke produced during incineration is small, and no corrosive gases are produced. (EM CE/F, PV-CC)
- Because they do not contain lead or any other heavy metals, they can be disposed of in landfill without concern about elution. (All product types)
- PV-CC cables are specialized for solar power generating applications. They have a shield-less structure and can be used in high-voltage ranges up to 1,500 VDC.

構造図 Structural diagram



表面表示 Surface marking

CV	<PS> E JET M-ONAMBA CV 导体断面積
HCV	<PS> E JET M-ONAMBA タイネツ HCV 导体断面積 PV Cable
EM CE/F	<PS> E JET M-ONAMBA タイネン EM CE/F 导体断面積 エコ PV Cable
PV-CC	DC1500V PV-CC ONAMBA 製造年 导体断面積 Photovoltaic Cable

● 製造年 Calendar year ● 导体断面積 Conductor cross-section area ● タイネツ Heat resistant ● タイネン Flame resistant ● エコ Eco-friendly

適用規格 Applicable standards	CV, HCV, EM CE/F標準規格: JIS C3605 600Vポリエチレンケーブル CV, HCV, EM CE/F: Conforms to JIS C3605 600 V polyethylene insulated cables. PV-CC標準規格: JCS 4517 太陽光発電システム用ハロゲンフリーケーブル PV-CC: Conforms to JCS 4517 Halogen-free cables for solar power generation systems.
定 格 Rating	CV, HCV, EM CE/F: 温度 90°C 電圧 AC600V/DC750V以下 CV, HCV, EM CE/F: Temperature 90°C, voltage 600 VAC or 750 VDC or less PV-CC: 温度 90°C 電圧 DC1,500V以下 PV-CC: Temperature 90°C, voltage 1,500 VDC or less
電気用品安全法認可品 Certified product under the Electrical Appliances and Materials Safety Act	CV, HCV, EM CE/F: <PS>E JET 表示品 (P97参照) CV, HCV, EM CE/F: <PS> EJET mark product (Refer to p. 97.)
電気設備技術基準 第46条 第3者認証品 Third-party certified product under Article 46 of the Technical Standard for Electrical Equipment	PV-CC: 第3者認証 (S-JET) 表示品 PV-CC: Marked as third-party certified (S-JET).



国内用
Products for Japan
機器内用
Machine-internal wiring

構造表 Structural table

品名 Product name	導体 (AC) Conductor (AC)			誘電体厚さ Dielectric thickness mm	シース厚さ Sheath thickness mm	仕上外径 Finished outer diameter mm	導体抵抗 Conductor resistance (20°C) Ω/km	耐電圧 Withstand voltage (水中) V/1分間 (in water) V/minute	絶縁抵抗 Insulation resistance (20°C) MΩ·km	参考値 Reference value	
	公称断面 積 Nominal cross-section area mm ²	構成 素線数 / 素線径 Configuration No. of wires / Single wire diameter mm Wires/mm	外径 Outer diameter mm							許容電流 (40°C) Maximum permissible current (40°C) A	概算 重量 Approximate weight kg/km
CV, HCV	2	7/0.6	1.8	0.8	1.5	6.4	9.24	AC 1,500/1	2,500	33	60
	3.5	7/0.8	2.4	0.8	1.5	7.0	5.20			47	80
	5.5	7/1.0	3.0	1.0	1.5	8.0	3.33			62	115
EM CE/F	2	7/0.6	1.8	0.8	1.5	6.4	9.24			33	55
	3.5	7/0.8	2.4	0.8	1.5	7.0	5.20			47	75
	5.5	7/1.0	3.0	1.0	1.5	8.0	3.33			62	105
PV-CC	2	7/0.6	1.8	0.8	1.2	5.8	9.24	AC 6,500/5	1,000	33	50
	3.5	7/0.8	2.4	0.8	1.2	6.4	5.20			47	70
	5.5	7/1.0	3.0	0.8	1.2	7.0	3.33			62	95

- CV, HCVの2mm²は、心線構成違い(19本/0.37mm)の製作も可能です。
- PV-CCは、電気用品安全法対象外のためPSEマークは表示できません。
- 許容電流は内線規定1340-2などの許容電流より抜粋
- CV and HCV 2 mm² sizes can also be produced with different core configurations (19 wires / 0.37 mm).
- PV-CC does not bear the PSE mark because it is not subject to the Electrical Appliances and Materials Safety Act.
- Maximum permissible current references the maximum permissible current of indoor wiring regulation 1340-2 and other sources.

シース標準色 Sheath standard colors

黒、白 (CV, HCV)、黒 (EM CE/F、PV-CC)
(ライン識別にも対応いたします。)

Black, white (CV, HCV), black (EM CE/F, PV-CC)
(Line identification is also provided.)

使用上の注意 Precautions for use

- 周囲環境により配線施工後に電線表面が白くなることがありますが、電線表面の現象で特性に影響はありません。
- EM CE/F、PV-CCのシース材料は強く擦られると表面に白い跡(筋)が残る傾向(白化現象)があります。電線表面の現象で特性に影響はありませんが取り扱いにはご注意ください。
- Due to the surrounding environment, the cable surfaces may turn white following cable installation work, however this is a cable surface phenomenon and does not affect the characteristics.
- The surface of the EM CE/F and PV-CC sheath material tends to produce white marks (streaks) on the surface (whitening phenomenon) when the cables are strongly rubbed. This is a cable surface phenomenon and does not affect the characteristics, however care should be used when handling the products.

同軸
Coaxial cables

医療・食品用
Cables for medical care
and food products

太陽光用
Cables for solar
power generation

環境用
Environmental
cables

海外用
Products for
Overseas

固定用
Products for fixed
applications

稼動用
Products for moving
applications

資料
Data

事業展開
Oranbia
business areas

事業拠点
Oranbia
business sites