

CARNECTOR® EVC SERIES

Ultra Performance Flexible Hybrid
Power and Data Cable 450 / 750 V



APPLICATIONS:

- ▶ Dedicated supply cable for EV charging infrastructure, supporting residential, commercial, and fleet single phase charging installations.
- ▶ Combined power and communication solution for solar inverter systems requiring both energy supply and connectivity.
- ▶ Ideal for supplying secondary dwellings, garages, and outbuildings where both power and data services are in a single cable.
- ▶ Suitable for smart infrastructure applications including EV-ready installations, energy management systems, and automation services such as electric gates.

FEATURES	BENEFITS
Hybrid Power & Data Cable Design	Allows both power and communication circuits to be safely installed using a single cable assembly.
Integrated 300V Rated CAT5e cable	Allows safe installation alongside 230V conductors, compliant with AS/NZS 3000 3.9.8.3(b)
FTP (Foiled Twisted Pair) CAT5e cable	Aluminium foil shield provides protection against electromagnetic interference (EMI) and external electrical noise, ensuring reliable and stable data transmission
Flexible UV-Stabilised Flame Retardant Construction	Minimises toxic fumes and smoke in the event of a fire.

CONSTRUCTION:

Conductors: Annealed plain copper stranded flexible conductors (Class 5)

Power Core Insulation: X-90 cross-linked polyethylene (XLPE).

Communication Element: Integrated screened CAT5e communication cable with 4-pair twisted configuration, foil shield and drain wire.

Sheath: UV stabilised flexible SPVC flame retardant outer sheath.

CHARACTERISTICS:

Operating Temperature Range: Fixed installation -20°C to 90°C.

Maximum Conductor Temperature: 90°C (Current ratings based on 30°C ambient air temperature. Refer to technical section for de-rating factors).

Rated Voltage Uo/U: 450/750V

Minimum Bending Radius: Fixed 4 x cable diameter / During installation 6 x cable diameter.

Sheath Colour: Black UV stabilised sheath.

Core Identification: Red, Black, Green/Yellow.

Relevant Standards: AS/NZS 3000, AS/NZS 5000.2, AS/NZS 3808, AS/NZS 1125 compliant. **RoHS** Compliant.

Code	No. of Cores x Size (mm ²)	Approx. Stranding no. of Wires x mm	Approx. Overall Diameter (H x W) (mm x mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed @ 30°C fixed application Touching	Nominal Amps enclosed by thermal insulation @ 30°C fixed application Touching	Single Phase Volt Drop @50Hz / MAX. Conductor Temp: 90°C (Mv/Am)
EVC03/6.0	3x6	84/0.30	18.1 ±7%	460	56	30	7.85
EVC03/10	3x10	80/0.40	20.3 ±7%	610	79	40	4.68
EVC03/16	3x16	128/0.40	22.2 ±7%	795	106	54	2.81

Firstflex has taken every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Firstflex reserves the right to modify specifications at any time.