

# DATASHEET



## SUN8K-SG04LP3-EU 3 Phase

**บริษัท เอสวาย คอนเนค (ประเทศไทย) จำกัด**

7/17 ชั้นที่ 3 ถนนสามัคคีชัย ตำบลในเมือง  
อำเภอเมืองเพชรบูรณ์ จ.เพชรบูรณ์ 67000

เลขประจำตัวผู้เสียภาษี :: 0675564001294

**SYconnext**  
เอสวาย คอนเนค (ประเทศไทย) จำกัด

# Three Phase Hybrid Inverter

SUN-5/6/8/10/12K-SG04LP3-EU



100

100% unbalanced output, max. output up to 50% rated power for each phase



AC couple to retrofit existing solar system

10

Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel

240

Max. charging/discharging current of 240A

48

48V low voltage battery, transformer isolation design

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

**Deye**

Stock Code: 605117.SH

# Technical Data

www.deyeinverter.com

| Model                                              | SUN-5K<br>-SG04LP3-EU                                                                                                                                                                                                                                                                                                           | SUN-6K<br>-SG04LP3-EU | SUN-8K<br>-SG04LP3-EU | SUN-10K<br>-SG04LP3-EU | SUN-12K<br>-SG04LP3-EU |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|------------------------|------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                           |                       |                       |                        |                        |
| Max. Charging Current (A)                          | 120                                                                                                                                                                                                                                                                                                                             | 150                   | 190                   | 210                    | 240                    |
| Max. Discharging Current (A)                       | 120                                                                                                                                                                                                                                                                                                                             | 150                   | 190                   | 210                    | 240                    |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                            |                       |                       |                        |                        |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                               |                       |                       |                        |                        |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Max. PV Access Power (W)                           | 10000                                                                                                                                                                                                                                                                                                                           | 12000                 | 16000                 | 20000                  | 24000                  |
| Max. PV Input Power (W)                            | 7500                                                                                                                                                                                                                                                                                                                            | 9000                  | 12000                 | 15000                  | 18000                  |
| Max. PV Input Voltage (V)                          | 800                                                                                                                                                                                                                                                                                                                             |                       |                       |                        |                        |
| Start-up Voltage (V)                               | 160                                                                                                                                                                                                                                                                                                                             |                       |                       |                        |                        |
| MPPT Voltage Range (V)                             | 200-650                                                                                                                                                                                                                                                                                                                         |                       |                       |                        |                        |
| Rated PV Input Voltage (V)                         | 550                                                                                                                                                                                                                                                                                                                             |                       |                       |                        |                        |
| Max. Operating PV Input Current (A)                | 13+13                                                                                                                                                                                                                                                                                                                           |                       |                       | 26+13                  |                        |
| Max. Input Short-Circuit Current (A)               | 17+17                                                                                                                                                                                                                                                                                                                           |                       |                       | 34+17                  |                        |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                           |                       |                       | 2/2+1                  |                        |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Rated AC Input/Output Active Power (W)             | 5000                                                                                                                                                                                                                                                                                                                            | 6000                  | 8000                  | 10000                  | 12000                  |
| Max. AC Input/Output Apparent Power (VA)           | 5500                                                                                                                                                                                                                                                                                                                            | 6600                  | 8800                  | 11000                  | 13200                  |
| Rated AC Input/Output Current (A)                  | 7.6/7.2                                                                                                                                                                                                                                                                                                                         | 9.1/8.7               | 12.1/11.6             | 15.2/14.5              | 18.2/17.4              |
| Max. AC Input/Output Current (A)                   | 8.4/8                                                                                                                                                                                                                                                                                                                           | 10/9.6                | 13.4/12.8             | 16.7/15.9              | 20/19.1                |
| Max. Continuous AC Passthrough (grid to load) (A)  | 45                                                                                                                                                                                                                                                                                                                              |                       |                       |                        |                        |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                     |                       |                       |                        |                        |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                      |                       |                       |                        |                        |
| Rated Input/Output Voltage/Range (V)               | 220/380V, 230/400V 0.85Un-1.1Un                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                              |                       |                       |                        |                        |
| Grid Connection Form                               | 3L+N+PE                                                                                                                                                                                                                                                                                                                         |                       |                       |                        |                        |
| Total Current Harmonic Distortion THDi             | <3% (of nominal power)                                                                                                                                                                                                                                                                                                          |                       |                       |                        |                        |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                           |                       |                       |                        |                        |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                           |                       |                       |                        |                        |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                            |                       |                       |                        |                        |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                       |                       |                        |                        |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Communication Interface                            | RS485/RS232/CAN                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                            |                       |                       |                        |                        |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                          |                       |                       |                        |                        |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                           |                       |                       |                        |                        |
| Noise (dB)                                         | ≤55                                                                                                                                                                                                                                                                                                                             |                       |                       |                        |                        |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                           |                       |                       |                        |                        |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                         |                       |                       |                        |                        |
| Cabinet Size (WxHxD mm)                            | 422×658×254 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Weight (kg)                                        | 38                                                                                                                                                                                                                                                                                                                              |                       |                       |                        |                        |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                         |                       |                       |                        |                        |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                              |                       |                       |                        |                        |
| Grid Regulation                                    | IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105                                                                                                                                                                                                              |                       |                       |                        |                        |
| Safety / EMC Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                          |                       |                       |                        |                        |

# DATASHEET

## PV PANEL

**LONGi** *JinkO<sup>Solar</sup>* **JA**SOLAR

**630 - 635 W**

บริษัท เอสวาย คอนเนค (ประเทศไทย) จำกัด

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# N-TYPE

## SERIES

**LONGi**

*Solar*  
**Jinko**

**JA** SOLAR



**630 - 635 W**

# DATASHEET

## SMART POWER SENSOR



# HUAWEI

## DDSU666-H

**บริษัท เอสวาย คอนเนค (ประเทศไทย) จำกัด**

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# Smart Power Sensor



## Accurate

Class 1 measurement accuracy



## Simple & Easy

LCD display, easy to set and check



## Energy Efficient

Overall power consumption  $\leq 1$  W

| Technical Specification       | DDSU666-H                                                                                                                   | DTSU666-H                                                                                                                   | DTSU666-H 250A/50mA                                                                                                          |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| General Data                  |                                                                                                                             |                                                                                                                             |                                                                                                                              |
| Dimension (H x W x D)         | 100 x 36 x 65.5 mm<br>(3.9 x 1.4 x 2.6 inch)                                                                                | 100 x 72 x 65.5 mm<br>(3.9 x 2.8 x 2.6 inch)                                                                                | 100 x 72 x 65.5 mm<br>(3.9 x 2.8 x 2.6 inch)                                                                                 |
| Mounting type                 | DIN35 Rail                                                                                                                  |                                                                                                                             |                                                                                                                              |
| Weight (including cables)     | 1.2 kg (2.6 lb)                                                                                                             | 1.5 kg (3.3 lb)                                                                                                             | 1.5 kg (3.3 lb)                                                                                                              |
| Power Supply                  |                                                                                                                             |                                                                                                                             |                                                                                                                              |
| Power grid type               | 1P2W                                                                                                                        | 3P4W                                                                                                                        | 3P4W/3P3W                                                                                                                    |
| Input voltage (phase voltage) | 176 Vac ~ 288 Vac                                                                                                           |                                                                                                                             |                                                                                                                              |
| Power consumption             | ≤ 0.8 W                                                                                                                     | ≤ 1 W                                                                                                                       | ≤ 1 W                                                                                                                        |
| Measurement Range             |                                                                                                                             |                                                                                                                             |                                                                                                                              |
| Line voltage                  | /                                                                                                                           | 304 Vac ~ 499 Vac                                                                                                           | 304 Vac ~ 499 Vac                                                                                                            |
| Phase voltage                 | 176 Vac ~ 288 Vac                                                                                                           |                                                                                                                             |                                                                                                                              |
| Current                       | 0 ~ 100 A                                                                                                                   | 0 ~ 100 A                                                                                                                   | 0 ~ 250 A                                                                                                                    |
| Measurement Accuracy          |                                                                                                                             |                                                                                                                             |                                                                                                                              |
| Voltage                       | ±0.5 %                                                                                                                      |                                                                                                                             |                                                                                                                              |
| Current / Power / Energy      | ±1 %                                                                                                                        |                                                                                                                             |                                                                                                                              |
| Frequency                     | ±0.01 Hz                                                                                                                    |                                                                                                                             |                                                                                                                              |
| Communication                 |                                                                                                                             |                                                                                                                             |                                                                                                                              |
| Interface                     | RS485                                                                                                                       |                                                                                                                             |                                                                                                                              |
| Baud rate                     | 9,600 bps                                                                                                                   |                                                                                                                             |                                                                                                                              |
| Communication protocol        | Modbus-RTU                                                                                                                  |                                                                                                                             |                                                                                                                              |
| Environment                   |                                                                                                                             |                                                                                                                             |                                                                                                                              |
| Operating temperature range   | -25 °C ~ 60 °C                                                                                                              |                                                                                                                             |                                                                                                                              |
| Storage temperature range     | -40 °C ~ 70 °C                                                                                                              |                                                                                                                             |                                                                                                                              |
| Operating humidity            | 5 %RH ~ 95 %RH (non-condensing)                                                                                             |                                                                                                                             |                                                                                                                              |
| Others                        |                                                                                                                             |                                                                                                                             |                                                                                                                              |
| Accessories                   | RS485 Cable (10 m / 33 ft.)                                                                                                 |                                                                                                                             |                                                                                                                              |
|                               | 1 CT 100A / 40mA<br>(5 m / 16.4 ft.)<br> | 3 CT 100A / 40mA<br>(5m / 16.4 ft.)<br> | 3 CT 250A / 50mA<br>(5m / 16.4 ft.)<br> |

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## PV CABEL & ACCESSORIES



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# SOLAR CABLE

## CATALOG 2022 - 2023

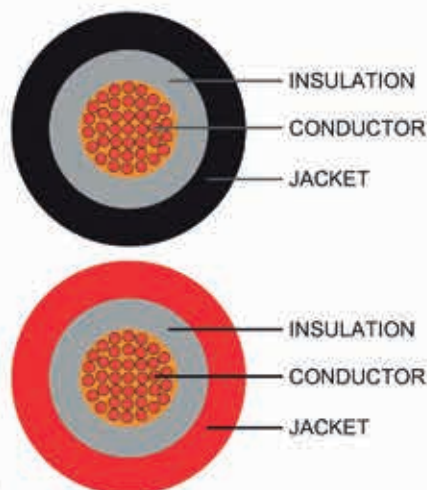


# SOLAR CABLE

## (Photovoltaic Cable)

### STANDARD

- IEC 62930:2017
- EN 50618:2014
- IEC/EN 60228 Class 5
- DIN VDE 0295 Class 5
- TÜV Approvals R50495554
- RoHS compliant



### ELECTRICAL CHARACTERISTIC

|                                   |                                                                       |
|-----------------------------------|-----------------------------------------------------------------------|
| Nominal Voltage $U_0/U$           | AC 1000/1000V,<br>DC 1500/1500V                                       |
| Max. DC voltage                   | 1800V (conductor-conductor, non-earth system, circuit not under load) |
| AC Test Voltage                   | 6.5 KV                                                                |
| DC Test Voltage                   | 15 KV                                                                 |
| Min. Surface resistance of sheath | $10^9 \Omega$                                                         |

### TEMPERATURE

|                               |                  |
|-------------------------------|------------------|
| Max. temperature at conductor | -40°C to + 120°C |
| Temperature Range             | -40°C to + 90°C  |

### CABLE CONSTRUCTION

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Conductor Material  | Fine wire stranded tinned copper according IEC/EN 60228 Class 5                     |
| Insulation Material | Halogen free, Copolymer Electron beam cross-linked polyethylene (XLPE)              |
| Jacket Material     | Halogen free, Copolymer Electron beam cross-linked polyethylene (XLPE) with FR-LSZH |
| Jacket Color        | Red or Black                                                                        |

### TECHINICAL SPECIFICATION

| Size (mm <sup>2</sup> ) | Insulation Thickness (mm) | Jacket Thickness (mm) | Jacket Diameter (mm) | Conductor Resistance at 20°C (Ω/km) | Insulation Resistance at 20°C (MΩ/km) | Rated Current (A) |                  |
|-------------------------|---------------------------|-----------------------|----------------------|-------------------------------------|---------------------------------------|-------------------|------------------|
|                         |                           |                       |                      |                                     |                                       | @ 30°C (IEC62930) | @ 60°C (EN50618) |
| 2.5                     | 0.70                      | 0.80                  | 5.05±0.30            | ≤ 8.21                              | ≥ 690                                 | 42                | 41               |
| 4                       | 0.70                      | 0.80                  | 5.40±0.30            | ≤ 4.85                              | ≥ 580                                 | 57                | 55               |
| 6                       | 0.70                      | 0.80                  | 6.30±0.30            | ≤ 3.25                              | ≥ 500                                 | 72                | 70               |
| 10                      | 0.70                      | 0.80                  | 7.20±0.30            | ≤ 1.95                              | ≥ 420                                 | 98                | 98               |

### ORDER INFORMATION

| Part Number | Description                                                                            | Length          | Package    |
|-------------|----------------------------------------------------------------------------------------|-----------------|------------|
| CB-1025AX   | PV Solar Cable, 62930 IEC131, H1Z2Z2-K, 1500 V, 1x2.5 mm <sup>2</sup> , (Black or Red) | 100/500/1000 m. | Box./Roll. |
| CB-1040AX   | PV Solar Cable, 62930 IEC131, H1Z2Z2-K, 1500 V, 1x4 mm <sup>2</sup> , (Black or Red)   | 100/500/1000 m. | Box./Roll. |
| CB-1060AX   | PV Solar Cable, 62930 IEC131, H1Z2Z2-K, 1500 V, 1x6 mm <sup>2</sup> , (Black or Red)   | 100/500/1000 m. | Box./Roll. |
| CB-1100AX   | PV Solar Cable, 62930 IEC131, H1Z2Z2-K, 1500 V, 1x10 mm <sup>2</sup> , (Black or Red)  | 100/500/1000 m. | Box./Roll. |

**X=Color : B (Black) , R(Red)**

Add "-1" at the end of the P/N = 100 m / Box.e.g. CB-1040AB-1

"-5" at the end of the P/N = 500 m / Roll.e.g. CB-1040AB-5

# CONNECTOR for SOLAR CABLE

## (MC4 SERIES)



### MC4 CONNECTOR (PAIR)

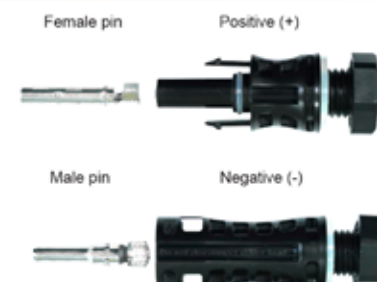
- Compliant with MC4 Connector
- Compatible Cable : 2.5 mm<sup>2</sup>, 4.0 mm<sup>2</sup>, 6.0 mm<sup>2</sup> and 10.0 mm<sup>2</sup>
- Rated Voltage : 1500V DC
- Rate Current : 40A, 55A
- UV-resistance & Waterproof with Protection class IP68
- High voltage carrying capacity
- The connector can be used in the atrocious weather.
- Stable automatic lock-system makes connectors open and close easily
- The lock-clip has special designed to prevent personnel unlocked by hand.



| Part Number | Description                                                                   |
|-------------|-------------------------------------------------------------------------------|
| CB-1002A    | MC4 Connector (Pair) 1500V, TUV Standard, (2.5, 4.0 and 6.0 mm <sup>2</sup> ) |
| CB-1003     | MC4 Connector (Pair) 1500V, TUV Standard, (10.0 mm <sup>2</sup> )             |

### MC4 PANEL CONNECTOR (PAIR)

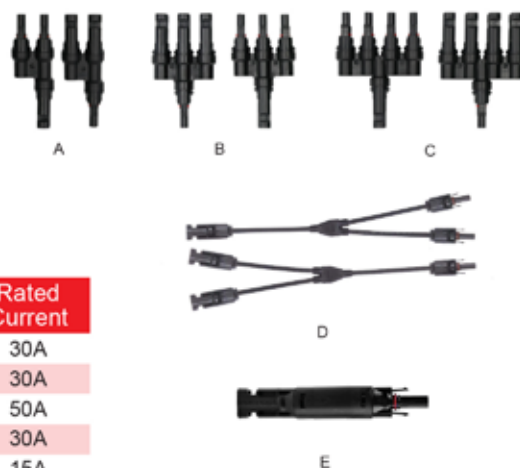
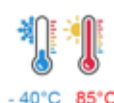
- Compliant with MC4 connector
- Compatible Cable : 2.5 mm<sup>2</sup>, 4 mm<sup>2</sup> and 6 mm<sup>2</sup>
- Rated Voltage : 1500V DC
- Rated Current : 50A
- UV-resistance & Waterproof with Protection class IP68
- High voltage carrying capacity
- The connector can be used in the atrocious weather.
- Stable automatic lock-system makes connectors open and close easily
- The lock-clip has special designed to prevent personnel unlocked by hand.



| Part Number | Description                                                                         |
|-------------|-------------------------------------------------------------------------------------|
| CB-1006A    | MC4 Panel Connector (Pair) 1500V, TUV Standard, (2.5, 4.0 and 6.0 mm <sup>2</sup> ) |

### MC4 BRANCH, MC4 T-TYPE and MC4 FUSE CONNECTOR

- Compliant with MC4 Connector
- Compatible Cable : 2.5 mm<sup>2</sup>, 4 mm<sup>2</sup> and 6 mm<sup>2</sup>
- Rated Voltage : 1500V DC
- Rated Current : 30A, 50A
- UV-resistance & Waterproof with Protection class IP67
- High voltage carrying capacity
- The connector can be used in the atrocious weather.
- Stable automatic lock-system makes connectors open and close easily



| Part Number | Description                                                   | Figure | Rated Current |
|-------------|---------------------------------------------------------------|--------|---------------|
| CB-1004     | MC4 Y Branch, 2 to 1 Connector (Pair), 1500V, TUV Standard    | A      | 30A           |
| CB-1008     | MC4 T-Type, 3 to 1 Connector (Pair), 1500V, TUV Standard      | B      | 30A           |
| CB-1010     | MC4 T-Type, 4 to 1 Connector (Pair), 1500V, TUV Standard      | C      | 50A           |
| CB-1014     | MC4 Y-Branch Cable with Connector (Pair), 1500V, TUV Standard | D      | 30A           |
| CB-1020     | MC4 Fuse Connector, w/15A fuse, 1500V, TUV Standard           | E      | 15A           |

### PATCH CORD SOLAR CABLE

- Cable : 4 mm<sup>2</sup> and 6 mm<sup>2</sup> with MC4 Connector
- Rated Voltage : 1500V DC
- Rated Current : Connector 40A, Cable 42A, 57A
- UV-resistance & Waterproof with Protection class IP68
- The connector can be used in the atrocious weather.
- According IEC 62930:2017, IEC/EN 60228 Class 5
- TUV Approvals and RoHS compliant



| Part Number | Description                                              |
|-------------|----------------------------------------------------------|
| CB-5054B-XX | Patch Cord Solar Cable (BLACK) 4.0 mm <sup>2</sup> w/MC4 |
| CB-5054R-XX | Patch Cord Solar Cable (Red) 4.0 mm <sup>2</sup> w/MC4   |
| CB-5056B-XX | Patch Cord Solar Cable (BLACK) 6.0 mm <sup>2</sup> w/MC4 |
| CB-5056R-XX | Patch Cord Solar Cable (Red) 6.0 mm <sup>2</sup> w/MC4   |

XX = 03 : 3m., 05 : 5m., 10 : 10m., 20 : 20m., 30 : 30m., 50 : 50m.

\* Available other length on request.

## TOOL for SOLAR CONNECTOR

| Part Number | Description                         | Figure |
|-------------|-------------------------------------|--------|
| CB-1084     | MC4 Crimping Tool for MC4 Connector | A      |
| CB-1086     | MC4 Spanner for MC4 Connector       | B      |

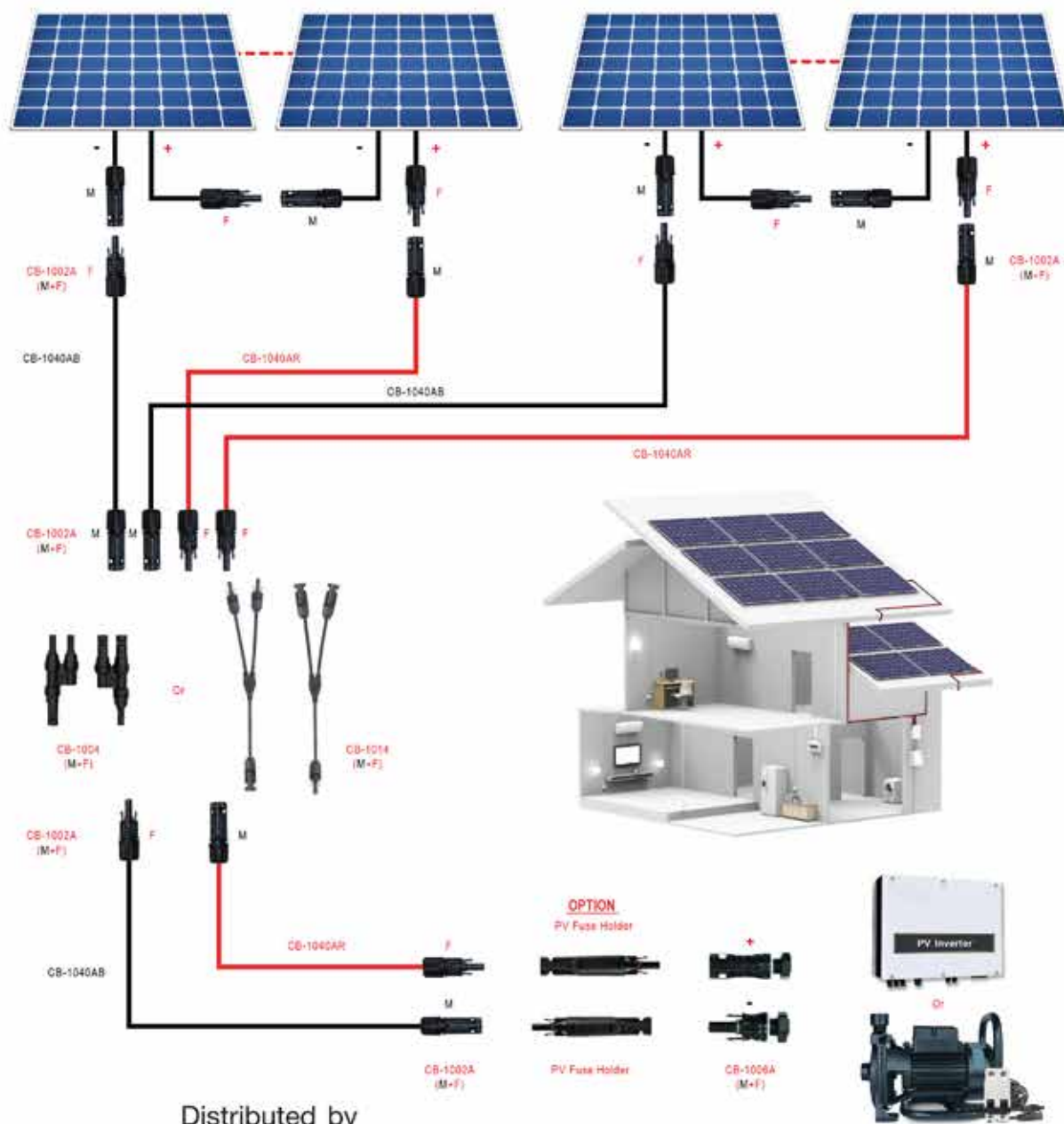


A



B

## SOLAR CABLE & CONNECTOR SOLUTION



# DATASHEET

## AC CABLE



450/750V 70°C IEC-01 Cable  
0.6/1KV 90°C CV Cable

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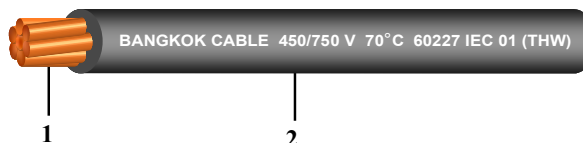
7/17 ชั้นที่ 3 ถนนสามัคคีชัย ตำบลในเมือง  
อำเภอเมืองเพชรบูรณ์ จ.เพชรบูรณ์ 67000

เลขประจำตัวผู้เสียภาษี :: 0675564001294

**SYconnext**  
เอสวาย คอนเนค (ประเทศไทย) จำกัด

# 450/750 V 70°C 60227 IEC 01 (THW)

SINGLE-CORE NON-SHEATHED CABLE WITH RIGID CONDUCTOR



## Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)  
Black, Light Blue, Brown, Grey, Green/Yellow  
or other colours

## Reference Standard :

TIS 11 Part 3-2553



## Classification

- Maximum conductor temperature : 70°C  
 Rated voltage : 450/750 V  
 AC test voltage : 2,500 V

## Application

- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Do not install in duct in ground or direct burial in ground

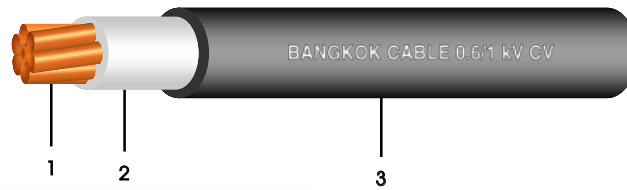
| Products code | Conductor                               |                        |                          | Thickness of insulation<br>mm | Overall diameter  |                   | Insulation resistance at 70°C<br>MΩ.km (Min.) | Current rating in free air<br>A | Cable weight<br>kg/km (Approx.) | Standard length<br>m |
|---------------|-----------------------------------------|------------------------|--------------------------|-------------------------------|-------------------|-------------------|-----------------------------------------------|---------------------------------|---------------------------------|----------------------|
|               | Cross-sectional area<br>mm <sup>2</sup> | No. of wires<br>(Min.) | Diameter<br>mm (Approx.) |                               | Lower limit<br>mm | Upper limit<br>mm |                                               |                                 |                                 |                      |
| C6KY013V1012  | 1.5                                     | 1                      | 1.36                     | 0.7                           | 2.6               | 3.2               | 0.011                                         | 21                              | 21                              | 100/C                |
| C6KY013V4012  | 1.5                                     | 7                      | 1.53                     | 0.7                           | 2.7               | 3.3               | 0.010                                         | 21                              | 22                              | 100/C                |
| C6KY014V1012  | 2.5                                     | 1                      | 1.75                     | 0.8                           | 3.2               | 3.9               | 0.010                                         | 29                              | 33                              | 100/C                |
| C6KY014V4012  | 2.5                                     | 7                      | 1.98                     | 0.8                           | 3.3               | 4.0               | 0.009                                         | 29                              | 34                              | 100/C                |
| C6KY015V1012  | 4                                       | 1                      | 2.21                     | 0.8                           | 3.6               | 4.4               | 0.0085                                        | 37                              | 48                              | 100/C                |
| C6KY015V2012  | 4                                       | 7                      | 2.49                     | 0.8                           | 3.8               | 4.6               | 0.0077                                        | 37                              | 50                              | 100/C                |
| C6KY016V1012  | 6                                       | 1                      | 2.70                     | 0.8                           | 4.1               | 5.0               | 0.0070                                        | 48                              | 68                              | 100/C                |
| C6KY016V2012  | 6                                       | 7                      | 3.09                     | 0.8                           | 4.3               | 5.2               | 0.0065                                        | 48                              | 72                              | 100/C                |
| C6KY017V1012  | 10                                      | 1                      | 3.50                     | 1.0                           | 5.3               | 6.4               | 0.0070                                        | 67                              | 110                             | 100/C                |
| C6KY017V2012  | 10                                      | 7                      | 3.99                     | 1.0                           | 5.6               | 6.7               | 0.0065                                        | 67                              | 120                             | 100/C                |
| C6KY018V2012  | 16                                      | 7                      | 5.01                     | 1.0                           | 6.4               | 7.8               | 0.0050                                        | 92                              | 180                             | 100/C                |
| C6KY019V2012  | 25                                      | 7                      | 6.30                     | 1.2                           | 8.1               | 9.7               | 0.0050                                        | 127                             | 280                             | 100/C                |
| C6KY010W2012  | 35                                      | 7                      | 7.55                     | 1.2                           | 9.0               | 10.9              | 0.0043                                        | 157                             | 380                             | 100/C                |
| C6KY011W2011  | 50                                      | 19                     | 8.75                     | 1.4                           | 10.6              | 12.8              | 0.0043                                        | 191                             | 510                             | 500/D                |
| C6KY012W2011  | 70                                      | 19                     | 10.50                    | 1.4                           | 12.1              | 14.6              | 0.0035                                        | 244                             | 720                             | 500/D                |
| C6KY013W2011  | 95                                      | 19                     | 12.35                    | 1.6                           | 14.1              | 17.1              | 0.0035                                        | 297                             | 990                             | 500/D                |
| C6KY014W2011  | 120                                     | 37                     | 13.93                    | 1.6                           | 15.6              | 18.8              | 0.0032                                        | 345                             | 1,220                           | 500/D                |
| C6KY015W2011  | 150                                     | 37                     | 15.47                    | 1.8                           | 17.3              | 20.9              | 0.0032                                        | 397                             | 1,510                           | 500/D                |
| C6KY016W2011  | 185                                     | 37                     | 17.29                    | 2.0                           | 19.3              | 23.3              | 0.0032                                        | 453                             | 1,880                           | 500/D                |
| C6KY017W2011  | 240                                     | 37                     | 19.89                    | 2.2                           | 22.0              | 26.6              | 0.0032                                        | 535                             | 2,470                           | 500/D                |
| C6KY018W2011  | 300                                     | 61                     | 22.23                    | 2.4                           | 24.5              | 29.6              | 0.0030                                        | 617                             | 3,080                           | 500/D                |
| C6KY019W2011  | 400                                     | 61                     | 25.20                    | 2.6                           | 27.5              | 33.2              | 0.0028                                        | 741                             | 3,930                           | 300/D                |

C = Packing in coil

D = Packing in drum

# 0.6/1 kV CV (FR-CV optional)\*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



## Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE), Natural colour
3. Sheath : Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)\*

## Reference Standard :

IEC 60502-1

## Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 1,000 V
- AC test voltage : 3,500 V

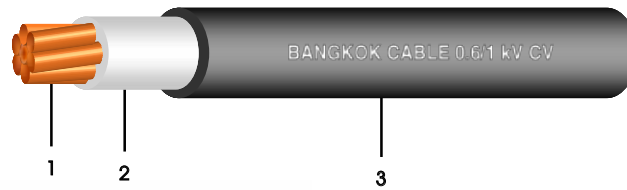
## Application

For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

| Conductor            |              |              | Thickness of insulation | Thickness of sheath | Overall diameter | DC, conductor resistance at 20°C | Insulation resistance at 20°C | Current rating              |                                 | Cable weight    | Standard length |
|----------------------|--------------|--------------|-------------------------|---------------------|------------------|----------------------------------|-------------------------------|-----------------------------|---------------------------------|-----------------|-----------------|
| Cross-sectional area | No. of wires | Diameter     |                         |                     |                  |                                  |                               | in free air at 40°C ambient | direct burial in ground at 30°C |                 |                 |
| mm <sup>2</sup>      | (Min.)       | mm (Approx.) | mm (Nominal)            | mm (Nominal)        | mm (Approx.)     | Ω/km (Max.)                      | MΩ.km (Min.)                  | A                           | A                               | kg/km (Approx.) | m/drum          |
| 1.5                  | 7            | 1.59         | 0.7                     | 1.4                 | 6.5              | 12.1                             | 2,550                         | 27                          | 33                              | 50              | 500             |
| 2.5                  | 7            | 2.01         | 0.7                     | 1.4                 | 7.0              | 7.41                             | 2,100                         | 38                          | 43                              | 60              | 500             |
| 4                    | 7            | 2.55         | 0.7                     | 1.4                 | 7.5              | 4.61                             | 1,700                         | 51                          | 56                              | 80              | 500             |
| 6                    | 7            | 3.12         | 0.7                     | 1.4                 | 8.0              | 3.08                             | 1,450                         | 66                          | 71                              | 110             | 500             |
| 10                   | 6            | 3.72         | 0.7                     | 1.4                 | 9.0              | 1.83                             | 1,250                         | 92                          | 94                              | 150             | 500             |
| 16                   | 6            | 4.69         | 0.7                     | 1.4                 | 9.5              | 1.15                             | 1,000                         | 124                         | 120                             | 210             | 500             |
| 25                   | 6            | 5.90         | 0.9                     | 1.4                 | 11.5             | 0.727                            | 1,050                         | 166                         | 155                             | 310             | 500             |
| 35                   | 6            | 6.95         | 0.9                     | 1.4                 | 12.5             | 0.524                            | 900                           | 206                         | 185                             | 410             | 500             |
| 50                   | 6            | 8.33         | 1.0                     | 1.4                 | 14.0             | 0.387                            | 850                           | 259                         | 225                             | 550             | 500             |
| 70                   | 12           | 9.73         | 1.1                     | 1.4                 | 15.5             | 0.268                            | 800                           | 321                         | 275                             | 750             | 500             |
| 95                   | 15           | 11.43        | 1.1                     | 1.5                 | 17.5             | 0.193                            | 700                           | 391                         | 330                             | 1,020           | 500             |
| 120                  | 18           | 12.95        | 1.2                     | 1.5                 | 19.5             | 0.153                            | 650                           | 455                         | 375                             | 1,270           | 500             |
| 150                  | 18           | 14.27        | 1.4                     | 1.6                 | 21.5             | 0.124                            | 700                           | 525                         | 425                             | 1,560           | 500             |
| 185                  | 30           | 15.98        | 1.6                     | 1.6                 | 23.5             | 0.0991                           | 700                           | 602                         | 480                             | 1,940           | 500             |
| 240                  | 34           | 18.47        | 1.7                     | 1.7                 | 26.5             | 0.0754                           | 650                           | 711                         | 560                             | 2,520           | 500             |
| 300                  | 34           | 20.68        | 1.8                     | 1.8                 | 29.0             | 0.0601                           | 600                           | 821                         | 635                             | 3,130           | 500             |
| 400                  | 53           | 23.39        | 2.0                     | 1.9                 | 32.5             | 0.0470                           | 600                           | 988                         | 725                             | 3,980           | 500             |
| 500                  | 53           | 26.67        | 2.2                     | 2.0                 | 36.5             | 0.0366                           | 600                           | 1,140                       | 830                             | 5,080           | 500             |
| 630                  | 53           | 30.22        | 2.4                     | 2.2                 | 41.0             | 0.0283                           | 550                           | 1,323                       | 945                             | 6,540           | 400             |
| 800                  | 53           | 34.00        | 2.6                     | 2.3                 | 45.5             | 0.0221                           | 550                           | 1,543                       | 1,060                           | 8,310           | 400             |

# 0.6/1 kV CV (FR-CV optional)\*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



## Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE), Natural colour
3. Sheath : Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)\*

## Reference Standard :

IEC 60502-1

## Classification

- Maximum conductor temperature : 90°C  
 Maximum circuit voltage : 1,000 V  
 AC test voltage : 3,500 V

## Application

For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

| Conductor cross-sectional area<br>mm <sup>2</sup> | AC Resistance of conductor at 90°C<br>Ω/km (Approx.) | Inductance*<br>mH/km (Approx.) | Reactance*<br>Ω/km (Approx.) | Impedance*<br>Ω/km (Approx.) |
|---------------------------------------------------|------------------------------------------------------|--------------------------------|------------------------------|------------------------------|
| 1.5                                               | 15.43                                                | 0.663                          | 0.208                        | 15.43                        |
| 2.5                                               | 9.45                                                 | 0.626                          | 0.197                        | 9.45                         |
| 4                                                 | 5.88                                                 | 0.594                          | 0.187                        | 5.88                         |
| 6                                                 | 3.93                                                 | 0.564                          | 0.177                        | 3.93                         |
| 10                                                | 2.33                                                 | 0.550                          | 0.173                        | 2.34                         |
| 16                                                | 1.47                                                 | 0.515                          | 0.162                        | 1.48                         |
| 25                                                | 0.927                                                | 0.507                          | 0.159                        | 0.941                        |
| 35                                                | 0.668                                                | 0.491                          | 0.154                        | 0.686                        |
| 50                                                | 0.494                                                | 0.477                          | 0.150                        | 0.516                        |
| 70                                                | 0.342                                                | 0.467                          | 0.147                        | 0.372                        |
| 95                                                | 0.247                                                | 0.459                          | 0.144                        | 0.286                        |
| 120                                               | 0.196                                                | 0.455                          | 0.143                        | 0.243                        |
| 150                                               | 0.160                                                | 0.455                          | 0.143                        | 0.214                        |
| 185                                               | 0.128                                                | 0.451                          | 0.142                        | 0.191                        |
| 240                                               | 0.0988                                               | 0.446                          | 0.140                        | 0.171                        |
| 300                                               | 0.0800                                               | 0.441                          | 0.139                        | 0.160                        |
| 400                                               | 0.0642                                               | 0.439                          | 0.138                        | 0.152                        |
| 500                                               | 0.0520                                               | 0.436                          | 0.137                        | 0.147                        |
| 630                                               | 0.0427                                               | 0.434                          | 0.136                        | 0.143                        |
| 800                                               | 0.0360                                               | 0.432                          | 0.136                        | 0.140                        |

\* Condition : Three cable laid in flat formation with a clearance between cables of 1.0 times the cable overall diameter

# DATASHEET

## IMC CONDUIT & ACCESSORIES



**บริษัท เอสวาย คอนเนค (ประเทศไทย) จำกัด**

7/17 ชั้นที่ 3 ถนนสามัคคีชัย ตำบลในเมือง  
อำเภอเมืองเพชรบูรณ์ จ.เพชรบูรณ์ 67000

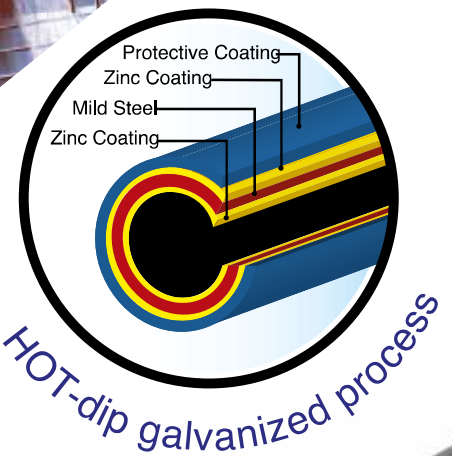
เลขประจำตัวผู้เสียภาษี :: 0675564001294

**SYconnext**  
เอสวาย คอนเนค (ประเทศไทย) จำกัด

“เป็นหนึ่งใน...เรื่องท่อในอาคาร”



ARROW PIPE



# DATASHEET

## WIREWAY & ACCESSORIES



## EPOXY POWDER PAINT

**บริษัท เอสวาย คอนเนค (ประเทศไทย) จำกัด**

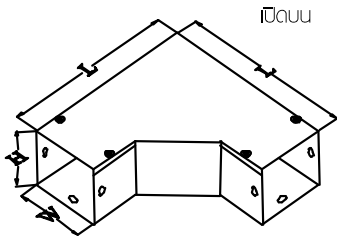
7/17 ชั้นที่ 3 ถนนสามัคคีชัย ตำบลในเมือง  
อำเภอเมืองเพชรบูรณ์ จ.เพชรบูรณ์ 67000

เลขประจำตัวผู้เสียภาษี :: 0675564001294

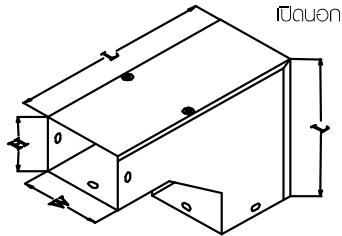
**SYconnext**  
เอสวาย คอนเนค (ประเทศไทย) จำกัด

# WIREWAY

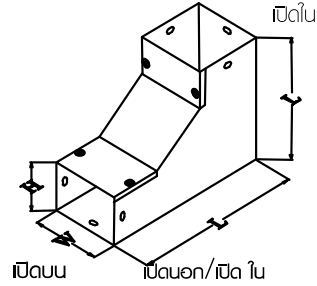
ข้อจ่อไวร์เวย์ แบบขันสกรู



เปิดบน



เปิดนอก



เปิดใน

เปิดบน

เปิดนอก/เปิด ใน



**KWWS - 4**

รางไวร์เวย์ แบบขันสกรู

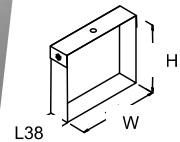


**KWWS - 8**

รางไวร์เวย์ แบบขันสกรู

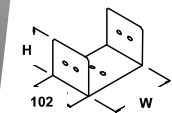
## HANGER SUPPORT

ข้อรับรางไวร์เวย์



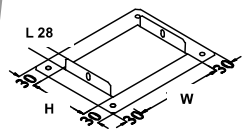
## CONNECTOR

ข้อต่อตรงไวร์เวย์



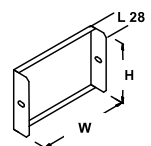
## FLANG END

ข้อต่อลงตู้รางไวร์เวย์



## END CAP

แผ่นปิดหัวท้ายรางไวร์เวย์



Made by On

# DATASHEET

## WIREWAY & ACCESSORIES



## HOT DIP GALVANIZED

**บริษัท เอสวาย คอนเนค (ประเทศไทย) จำกัด**

7/17 ชั้นที่ 3 ถนนสามัคคีชัย ตำบลในเมือง  
อำเภอเมืองเพชรบูรณ์ จ.เพชรบูรณ์ 67000

เลขประจำตัวผู้เสียภาษี :: 0675564001294

**SYconnext**  
เอสวาย คอนเนค (ประเทศไทย) จำกัด

# STEEL WIREWAY WITH COVER

รางสายเคเบิล  
ชุบเคลือบในซ์  
HOT DIP  
GALVANIZED



## STANDARD :

ทะเบียนผลิตภัณฑ์ที่ อก 0709/13282 จากสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม และมาตรฐาน ISO 9001 : 2015

- MATERIAL :**
- ☐ Cold Rolled Mild Steel Sheet
  - ☐ Hot Rolled Mild Steel Sheet
  - ☐ Aluminium
  - ☐ Galvanized Steel Sheet (WG Type)
  - ☐ Aluzinc Steel Sheet (WAL Type)
  - ☐ Stainless Steel Sheet (WS Type)

- FINISHING :**
- ☐ HD (Hot dipped Galvanized)  
Average 55-65µm. Thickness to ASTM  
123/A123M (WH Type)
  - ☐ GI (Zinc)

**THICKNESS :** 1.6, 2.0 / Made to order available (width, length, height, thickness, color)

# DATASHEET

## MOUNTING SUPPORT &



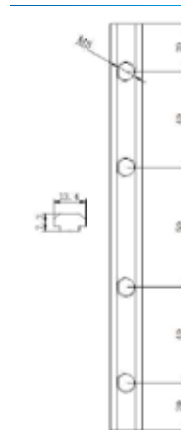
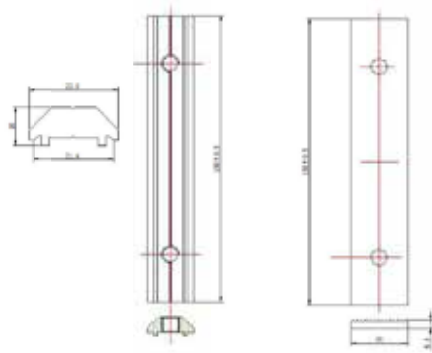
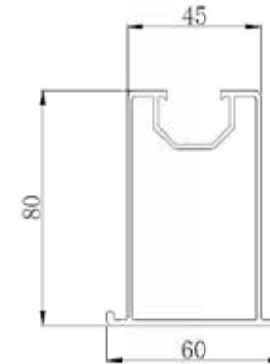
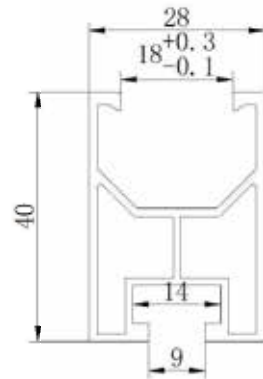
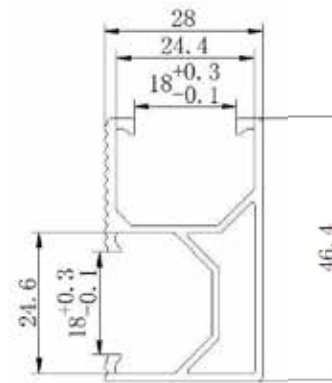
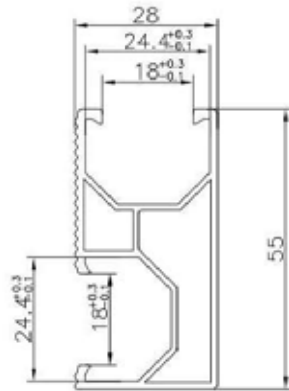
**MEGA**  
MEGA INDUSTRY (THAILAND) CO., LTD

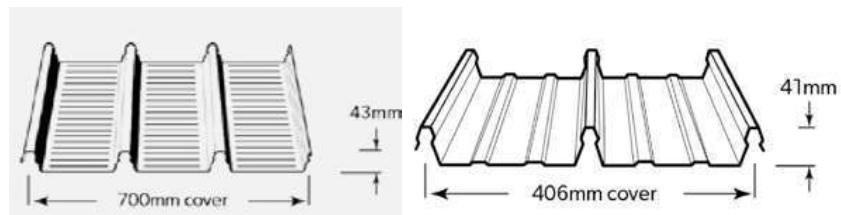
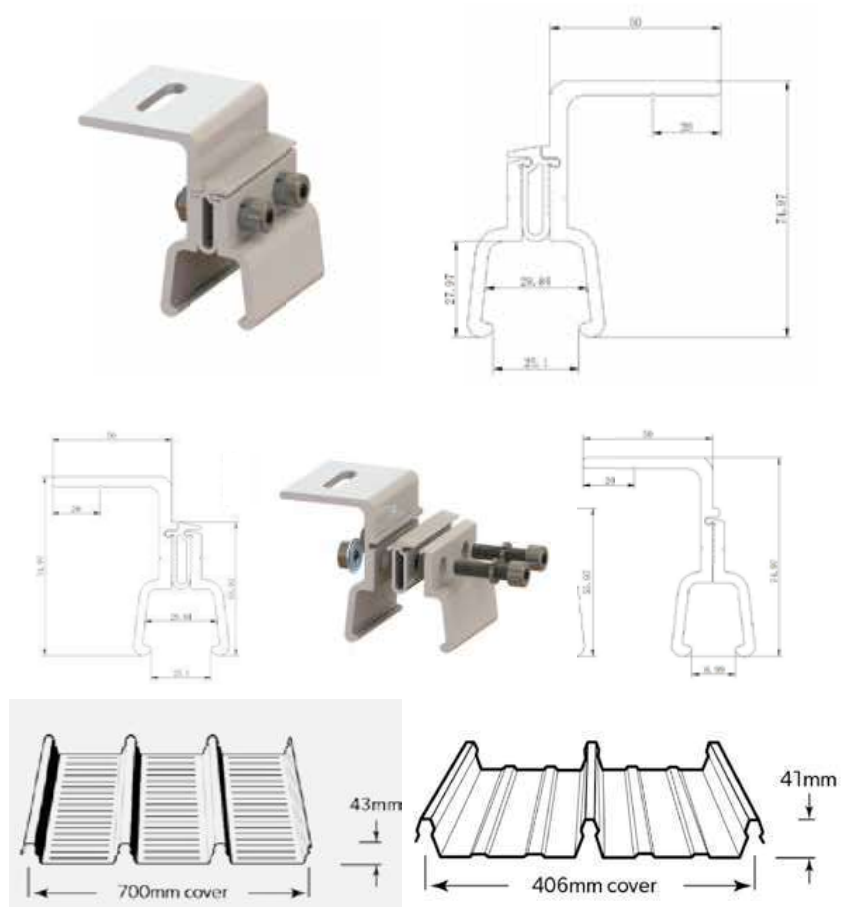
**บริษัท เอสวาย คอนเนค (ประเทศไทย) จำกัด**

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เอสวาย คอนเนค (ประเทศไทย) จำกัด





-14-

