**Part No.:VE3002_Dr**

## DESCRIPTION

Electric charging cable, compliance to EN and UL standards; application to most of the regions
Excellent weather ability; working temperature -50°C ~105°C
10 years life cycle; high insulation resistance under the damp condition
High mechanical performance; excellent resilience
Oil resistance against diesel and IRM902
Flame retardant

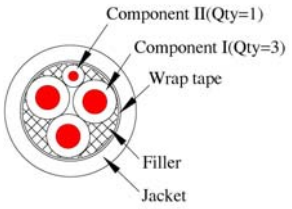
3x12AWG +1x20AWG Bare Copper UL 600V
3x4mm$^2$ +1x0.5mm$^2$ Bare Copper EN 450V/750V

## STANDARDS

EN 50620
UL 62, UL 2556
ROHS 2011/65/EU

## CABLE CONSTRUCTION

| | |
|---|---|
| Conductors (3*12AWG/4mm$^2$+1*20AWG/0.5mm$^2$) | Stranded Bare Copper |
| Component I (Power cores) | 12AWG/4mm$^2$ |
| Stranding | 308/0.127mm (308/0.005inch) |
| Nom. Dia. | 2.92mm (0.115inch) |
| Component II (Control pilot) | 20AWG/0.5mm$^2$ |
| Stranding | 19/0.20mm (19/0.008inch) |
| Nom. Dia. | 0.96mm (0.038inch) |
| Insulation for component I | XL Polyolefin |
| Min. Avg. Thickness | 1.14mm (0.045inch) |
| Color | White, Black, Green/yellow |
| Nom. OD. | 5.3mm (0.209inch) |
| Insulation for component II | XL Polyolefin |
| Min. Avg. Thickness | 0.76mm (0.030inch) |
| Color | Orange |
| Nom. OD. | 2.54mm (0.100inch) |
| Final Assembly | 3*Component I+1*Component II+filler |
| Wrap type | 25% Overlap |
| Jacket | XL Polyolefin |
| Min. Avg. Thickness | 2.03mm (0.080inch) |
| Color | Black |
| Nom. O.D. | 15.9mm (0.626inch) |




## PRINT LEGEND

BYSON ELECTRONICS EVCZ6 3X4mm$^2$ + CP 1X0.5mm$^2$ 450/750V 90°C EXXXXX（UL） EVE 3X12AWG + 1X20AWG 105°C 600V VW-1 OIL RES ROHS

## ELECTRICAL CHARACTERISTICS (at +20°C)

| | |
|---|---|
| Min. Insulation Resistance | 12AWG/4mm²: 579MΩ.km (1900 MΩ.kft)<br>20AWG/0.5mm²: 859MΩ.km (2818 MΩ.kft) |
| Voltage Withstand | 3500 VAC/5min |
| Max. Conductor DC Resistance | 12AWG/4mm²: 4.95Ω/km (1.51Ω/kft)<br>20AWG/0.5mm²: 33Ω/km (10Ω/kft) |

## OTHER CHARACTERISTICS

| | |
|---|---|
| Voltage Rating | |
| UL 62 | 600V |
| EN 50620 | 450/750V |
| Working Temperature | -50°C ~105°C |
| Min. installation and handing | -25°C |
| Flammability | VW-1 |
| Current carrying capacity (12AWG/4mm²) | 30A@30°C Ambient |

## HISTORY

| | |
|---|---|
| May 25, 2016 First Issue | Draft |