

Data sheet for AMOCharge 5G16+1x4x0,75

AMOCharge is a hybrid cable, designed for installation where both power-supply and control are needed. The cable meets requirements for several types of communications used in EV-charging stations, including network connected devices.

AMOCharge is designed for fixed installation indoors, outdoors and in ground for direct burial or in pipes.

Art. No: 5410
 Conductor: IEC 60228,2
 Construction: HD 603 IAP
 Flame retardant: EN 50575:2014 + A1:2016
 CPR-class: Dca s1b, d2, a1

16mm² Bare copper conductor acc. to IEC 60228,2

Properties	Nominal Value	Unit
Wires in conductor, approx.	7	pcs
Nominal wire diameter	1,78	mm
Resistance, max at 20°C	1,15	Ω/km
Copper weight	5*153,6	kg/km

Insulation of 16mm² conductor acc. to IEC 60502,1

Properties	Nominal Value	Unit
Material	XLPE	
Temperature range	-25°C to +90°C	°C
Nominal Wall thickness	0,7	mm
Nominal Outer diameter	6,4 ± 0,5	mm
Colour	Yellow/Green, Blue, Brown, Black, L-Grey	

0,75mm² Bare copper conductor acc. to IEC 60228,2

Properties	Nominal Value	Unit
Wires in conductor, approx.	7	pcs
Nominal wire diameter	0,36	mm
Resistance, max at 20°C	24,5	Ω/km
Copper weight	4*7,2	kg/km

Insulation of 0,75mm² conductor acc. to IEC 60502,1 IAP

Properties	Nominal Value	Unit
Material	XLPE	
Temperature range	-25°C to +90°C	°C
Nominal Wall thickness	0,7	mm
Nominal Outer diameter	2,5 ± 0,2	mm
Colour	White with numbers 1-4	

Laying up quad, TP Pairs

Properties	Nominal Value	Unit
Quad, TP pairs 1x4x0,75		
Lay length	75 ± 25	mm
Lapping AL tape	15	mm
Drain wire 0,75 ft	1	pcs

Laying up of cores

Properties	Nominal Value	Unit
Centre, Dummy	1	pc.
Lay length	400 ± 50	mm
Lapping helical tape	1	pc.

Inner sheath acc. to EN 50363,8

Properties	Nominal Value	Unit
Material	Halogen free bedding compound	
Temperature range	-50°C to +85°C	°C
Nominal Wall thickness	1,0	mm
Colour	Natural	

Outer sheath acc. to EN 50363,8

Properties	Nominal Value	Unit
Material	Polyolefin	
Temperature range	-30°C to +90°C	°C
Nominal Wall thickness	1,8	mm
Nominal Outer diameter	25 ± 1	mm
Colour	Black	
Marking	AMOCharge 5G16+1x4x0,75 0,6/1kV YY/WW meter marking	

Specific properties

Properties	Nominal Value	Unit
Voltage range U _o /U	0,6/1	kV
Test voltage	3,5	kV
Temperature range	-25°C to +90°C	°C
Cat 7, Ethernet cable	On request	
Flame properties	CPR-class Dca s1b, d2, a1	Pass
Halogen content	IEC 60754, -1, -2	Pass
RoHS2 directive 2011/65/EU	Pass	

