

Data sheet for AMOCharge 5G10+1x4x0,75+Cat7

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.

Connection of ethernet cable. Screened products must be used, and manufacturers recommendations must be followed. The screen of the ethernet cable must be connected to ground.

Art. No: 5407
 Conductor: IEC 60228,2
 Construction: HD 603 IAP
 Flame retardant: EN 50575:2014 + A1:2016
 CPR-Class: Dca s2, d2, a1

10mm² Bare copper conductor acc. to IEC 60228,2

Properties	Nominal Value	Unit
Wires in conductor, approx.	7	pcs
Nominal wire diameter	1,36	mm
Resistance, max at 20°C	1,83	Ω/km
Copper weight	5*96	kg/km

Insulation of 10mm² 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	5,5 ± 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

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Laying up of cores

Properties	Nominal Value	Unit
Centre, 1x4x0,75	1	pc.
Cat 7 ethernet	1	pc.
Lay length	400 ± 50	mm
Lapping helical tape	1	pc.

Inner sheath acc. to EN 50363,8

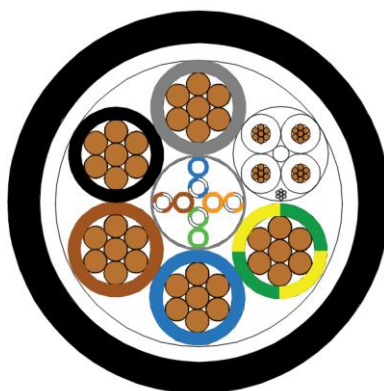
Properties	Nominal Value	Unit
Material	Halogen free bedding compound	
Temperature range	-50°C to +85°C	°C
Nominal Wall thickness	1,0	mm
Colour	Natural	

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	23,5 ± 1	mm
Colour	Black	
Marking	AMOChearge 5G10+1x4x0,75 0,6/1kV YY/WW meter marking	

Specific properties

Properties	Nominal Value	Unit
Voltage range U ₀ /U	0,6/1	kV
Test voltage	3,5	kV
Temperature range	-25°C to +90°C	°C
Cat 7, Ethernet cable	See separate TDS	
Flame properties	CPR-class Dca s2, d2, a1	Pass
Halogen content	IEC 60754, -1, -2	Pass
RoHS2 directive 2011/65/EU	Pass	



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