


SPECIFICATION

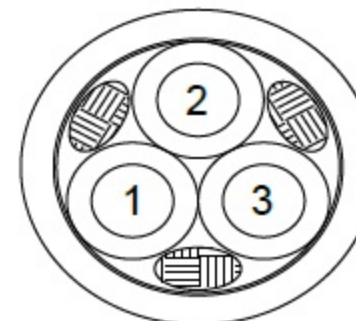
1.Scope:
This specification established a description for PVC insulation,Cotton yarn for Filler,Cotton paper for Seperator and TPU jacket cable.

2.Design and Construction Data

Item	Description	
	Unit	A
Conductor	No. of pair	3C (1mm ²)
	Material	Bare copper wire
	Construction	32/0.20±0.008 (IEC 60228 Class 5)
Insulation	Material	PVC
	Nom. Thickness	0.35
	Nom. O.D.:	2.05±0.10
	Color	1.Brown 2.White 3.Black
Filler	Material	Cotton yarn
Seperator	Material	Cotton paper
	Overlap	≥25%
Jacket	Material	TPU
	Nom. Thickness	0.70
	Nom. O.D.:	6.0±0.20
	Color	Black
Marking	 CAB1397H POWER CABLE 3X1mm ² 300/500V RoHS TPU	
	Color	White (Ink printing)

3.Physical and Electrical Performance		
Item		Requirement
Spark Test	kv	3.0 for insulation; 3.0 for jacket
Conductor resistance	ohm/km	19.5 (at 20°C max)
Temperature rating	Occasional flexing	- 5°C up to +70°C max. conductor temp.
	Fixed installation	- 40°C up to +80°C max. conductor temp.
Voltage rating (U ₀ / U)	V	300/500
Test voltage (Core/Core)		4000V AC
Flame retardant test		FT2
UV resistance		acc. to EN 50620 resp. VDE 0285-620
		acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Ozone resistance		acc. to EN 50396 resp. VDE 0473-396, method B
Oil Resistant Jacket (UL758&UL1581)		(7d @ 60°C)
Cold bend (-40°Cx4h)		No cracks
Minimum bending radius		Occasional flexing: 12.5 x cable diameter
		Fixed installation: 4 x cable diameter
General requirements		These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

4.Cross-section



5.Remark:

- 1).Reference standard: UL1581&EN 50525-2-51&EN 50525-2-21;
- 2).The cable is complied with RoHS standard;
- 3).The unit of the dimension is mm unless specified in the specification;
- 4).The cross sections do not represent the actual size for your information;