SPECIFICATION

1.Scope:

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

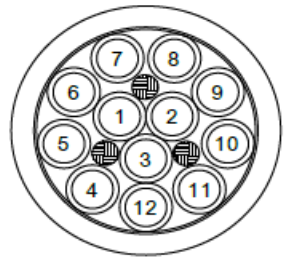
2.Design and Construction Data

Item		Description
		UnitA
Conductor	No. of pair	12C (1.5mm²)
	Material	Bare copper wire
	Construction	48/0.20±0.008 (IEC 60228 Class 5)
Insulation	Material	PVC
	Nom. Thickness	0.35
	Nom. O.D.:	2.35±0.10
	Color	1.Brown 2.White 3.Yellow 4.Green 5.Black 6.Red 7.Blue 8.Orange 9.Gray 10.Violet 11.Pink 12.Green/Yellow
Filler	Material	Cotton yarn
Seperator	Material	Cotton paper
	Overlap	≥25%
Jacket	Material	TPU
	Nom. Thickness	0.90
	Nom. O.D.:	12.0±0.40
	Color	Black
Marking	HMWS	CAB1360H POWER CABLE 12X1.5mm² 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	13.3 (at 20℃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℃)
Cold bend (-40℃x4h)		No cracks
Minimum bending radius		Occasional flexing: 12.5 x cable diameter Fixed installation: 6 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;

1).The cable is complied with RoHS standard;

2).The unit of the dimension is mm unless specified in the specification;

3).The cross sections do not represent the actual size for your information;