

# 無量光<sup>®</sup> HN-Amtb

## Model No. : FP1C

Single core non-sheathed fire resistant cables with halogen-free crosslinked insulation and low emission of smoke and corrosive gases when affected by fire

Manufacturing Standard	BS 8592 for 1.5 to 70mm <sup>2</sup> Basically conforms to EN 50525-3-41 for 95 upto 400mm <sup>2</sup>
Fire Tests	- BS 6387 C, W & Z - IEC 60331-3 - EN 50200 (PH120) plus additional 30 min. survival time according to Annex E - BS 8434-2 (120 min)
Flame Propagation and Emissions	- EN 60332-1-2 - EN 61034-2 - EN 60754-1
Construction	Stranded plain annealed copper conductor, mica/glass fire barrier tape with elastomeric LSOH insulation
Minimum Bending Radius	6 x outer diameter (D)
Voltage Rating (U <sub>o</sub> /U)	450/750 V
Typical Applications	This cable is designed to be installed in metal conduits and suitable for use in fire alarm system , emergency lighting or power circuits.
Core Identification	Brown, Black, Grey, Blue, Green/Yellow, Red, Yellow, Orange, White or other colours available upon request
Approval	TÜV Rheinland
Max.Conductor Temperature	90°C



Nominal Section Area of Conductor (mm <sup>2</sup> )	Conductor Class	Insulation Thickness (mm)	Mean Overall Diameter (D) (mm)	Max.Conductor Resistance at 20°C (Ω / km)	Min.Insulation Resistance at 90°C (MΩ . km)	Approx.. Cable Weight (kg/ km)
1.5	2	0.7	3.5	12.1	0.0100	21
2.5	2	0.8	4.1	7.41	0.0090	34
4	2	0.8	4.6	4.61	0.0077	49
6	2	0.8	5.1	3.08	0.0065	69
10	2	1.0	6.7	1.83	0.0065	111
16	2	1.0	7.6	1.15	0.0050	170
25	2	1.2	9.4	0.727	0.0050	260
35	2	1.2	11.0	0.524	0.0043	352
50	2	1.4	12.4	0.387	0.0043	477
70	2	1.4	14.8	0.268	0.0035	669
95	2	1.6	14.8-18.3	0.193	0.0035	923
120	2	1.6	16.3-20.1	0.153	0.0032	1152
150	2	1.8	18.0-22.3	0.124	0.0032	1420
185	2	2.0	20.0-24.8	0.0991	0.0032	1776
240	2	2.2	22.7-28.2	0.0754	0.0032	2319
300	2	2.4	25.2-31.3	0.0601	0.0030	2950
400	2	2.6	28.2-35.0	0.0470	0.0028	3903

- Technical information like current ratings and voltage drop information can be provided upon request.
- Conductor class bases on EN or IEC60228 .
- BS6387, EN50200 and BS8434 are applicable to cables with overall size  $\leq$  20mm, otherwise IEC60331-21 will be applicable to cables with overall size > 20mm
- Standard package : 200m & 500m for 1.5 ~ 6mm<sup>2</sup> ; only 500m for 10mm<sup>2</sup> or above, but can be cut to desired length upon request

**Amtb** 無量光

AMTB Cables, Amulet to your Family

**Equipment Submission Detail :**

<b>Equipment/Materials Submitted</b>	:	450/750V, single core non-sheathed fire resistant cables with halogen-free crosslinked insulation and low emission of smoke and corrosive gases when affected by fire, complying to following standards - BS 8592 - BS 6387 Cat. CWZ - EN 50200 (PH120) plus additional 30 mins. survival time according to Annex E - BS 8434-2 (120 min) - EN 61034-2 - EN 60754-1 - EN 60332-1-2
<b>Brand Name</b>	:	無量光 HN-Amtb
<b>License Holder</b>	:	Amtb (Hong Kong) Holdings Ltd.
<b>Cable Reference/Model No.</b>	:	FP1C
<b>Application</b>	:	To be installed in surface/concealed conduit system or cable trunking system for power cables
<b>Certification Body</b>	:	TÜV Rheinland
<b>Cable Certificate</b>	:	UC 69255017
<b>Cable Range</b>	:	1.5mm <sup>2</sup> to 70mm <sup>2</sup>
<b>Manufacturer</b>	:	Amtb (Hong Kong) Holdings Ltd.
<b>Factory's Location</b>	:	Tianjin Jinneng Cable Co., Ltd. No.32 Kaiyuan Road, Wuqing Development Area, New Technology Industrial Park, Tianjin, Hebei Province, P.R. China
<b>Country of Origin</b>	:	P.R.C.