

#### APPLICATION

- For Security & commercial Audio, Intercom/PA system, Low Voltage analog signals (4-20 mA, 0-10V); Low Voltage Digital Control (24V); Line Level Audio; Voice Communication; Panel Wiring, -Communications cable is Listed for use in accordance with Article 800 of The National Electrical Code.

#### STANDARDS

UL 444	Communications Cables,
UL LISTED	E508858 Type CMR, CM, CMX (60°C – 105°C)

#### CONSTRUCTION DETAILS

<b>Conductor Material</b>	Plain annealed Copper to ASTM B3, Stranded conductor Class of ASTM. (22 AWG OR LARGER)
<b>Conductor Insulation</b>	Extruded Polyvinyl Chloride (PVC) 105°C.
<b>Insulation color</b>	Color coded (Table 1), or Black color with numbers.
<b>Assembly</b>	Insulated conductors are laid up/assembled to form a core.
<b>Overall Shielding (If required)</b>	Aluminum-Polyester (AL-PET foil) laminated tape with 100% coverage and suitable overlap, in contact with tinned copper drain wire. Drain wire Size: Circular copper tinned per ASTM B33, (24AWG-7 Strands)
<b>Outer Sheathing</b>	Extruded Poly vinyl chloride (PVC) Flame Retardant. (Gray or any color as request)
<b>Marking (Printing)</b>	ASHCOM ICB7 TYPE CMR (UL) E508858 (no. of cores) X (size) AWG CU/PVC/PVC SHIELDED 105C ASHCABLES KSA (Year of Manufacture)
<b>Cable Cross sectional drawing</b>	Figure 1

#### DIMENSIONS AND WEIGHTS

##### UNSHIELDED TYPE

S/N	ASH CABLES ITEM CODE	CABLE SIZE (No. of cores) X (AWG)	INSULATION Thickness Nom.(mm)	OUTER SHEATH Thickness Nom.(mm)	Overall Dia. Apprx. (mm)	Approx. Net Weight (Kg/Km)
1	IBB7-02C22AWG-UGR6I	2CX22 AWG (7X0.252)	0.45	0.60	5.00	35
2	IBB7-03C22AWG-UGR6I	3CX22 AWG (7X0.252)	0.45	0.60	5.30	45
3	IBB7-04C22AWG-UGR6I	4CX22 AWG (7X0.252)	0.45	0.60	5.70	50
4	IBB7-05C22AWG-UGR6I	5CX22 AWG (7X0.252)	0.45	0.60	6.00	57
5	IBB7-06C22AWG-UGR6I	6CX22 AWG (7X0.252)	0.45	0.60	6.50	62
6	IBB7-07C22AWG-UGR6I	7CX22 AWG (7X0.252)	0.45	0.60	6.80	67
7	IBB7-08C22AWG-UGR6I	8CX22 AWG (7X0.252)	0.45	0.60	7.20	75
8	IBB7-09C22AWG-UGR6I	9CX22 AWG (7X0.252)	0.45	0.60	7.80	84
9	IBB7-10C22AWG-UGR6I	10CX22 AWG (7X0.252)	0.45	0.60	8.30	90
10	IBB7-11C22AWG-UGR6I	11CX22 AWG (7X0.252)	0.45	0.60	8.50	95
11	IBB7-12C22AWG-UGR6I	12CX22 AWG (7X0.252)	0.45	0.60	8.80	102

##### SHIELDED TYPE

S/N	ASH CABLES ITEM CODE	CABLE SIZE (No. of cores) X (AWG)	INSULATION Thickness Nom.(mm)	OUTER SHEATH Thickness Nom.(mm)	Overall Dia. Apprx. (mm)	Approx. Net Weight (Kg/Km)
1	ICB7-02C22AWG-UGR6I	2CX22 AWG (7X0.252)	0.45	0.60	5.20	36
2	ICB7-03C22AWG-UGR6I	3CX22 AWG (7X0.252)	0.45	0.60	5.50	46
3	ICB7-04C22AWG-UGR6I	4CX22 AWG (7X0.252)	0.45	0.60	5.80	51
4	ICB7-05C22AWG-UGR6I	5CX22 AWG (7X0.252)	0.45	0.60	6.20	58
5	ICB7-06C22AWG-UGR6I	6CX22 AWG (7X0.252)	0.45	0.60	6.60	63
6	ICB7-07C22AWG-UGR6I	7CX22 AWG (7X0.252)	0.45	0.60	6.90	67
7	ICB7-08C22AWG-UGR6I	8CX22 AWG (7X0.252)	0.45	0.60	7.00	77
8	ICB7-09C22AWG-UGR6I	9CX22 AWG (7X0.252)	0.45	0.60	8.00	86
9	ICB7-10C22AWG-UGR6I	10CX22 AWG (7X0.252)	0.45	0.60	8.50	97
10	ICB7-11C22AWG-UGR6I	11CX22 AWG (7X0.252)	0.45	0.60	8.80	99
11	ICB7-12C22AWG-UGR6I	12CX22 AWG (7X0.252)	0.45	0.60	9.00	110

Larger conductor and higher core constructions are available upon request.  
Dimensions and Weights are subject for manufacturing Tolerance.

#### ELECTRICAL PROPERTIES

			22 AWG
<b>CONDUCTOR (DC)</b>	MATERIAL TYPE	UNIT	
<b>RESISTANCE @ 20°C(Ω/Km)</b>	PLAIN Cu	Ω/Km	≤55.60
<b>Mutual Capacitance</b>	Core to Core	nF/Km	≤ 250
<b>Operating Voltage</b>		Vrms	300

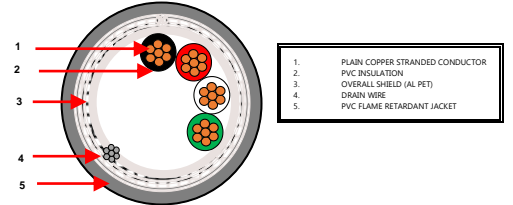
#### FLAME BEHAVIOUR, MECHANICAL & ENVIRONMENTAL PROPERTY

<b>Operating Temperature</b>	-20°C to +105°C
<b>Bending Radius</b>	10 X Cable Outer Diameter
<b>Flame Retardance</b>	VW-1 (UL 1581) / IEC 60332-1

<b>PACKING</b>	305/500/1000 mts. Coiled, Plastic spools or In Wooden Drum As per customer requirement Each spools/drum shall be marked with ASH cables standard practice.
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Figure 1

SHIELDED



UNSHIELDED

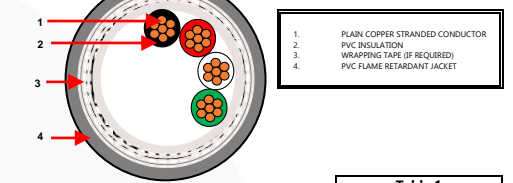


Table 1

Core 1	Black
Core 2	Red
Core 3	White
Core 4	Green
Core 5	Brown
Core 6	Blue
Core 7	Orange
Core 8	Yellow
Core 9	Purple
Core 10	Grey
Core 11	Pink
Core 12	Tan