

## APPLICATION

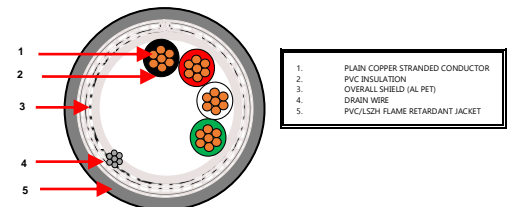
- For Low Voltage analog signals (4-20 mA, 0-10V); Low Voltage Digital Control (24V); Line Level Audio; Voice Communication; Panel Wiring, - Building Management Systems (BMS).

## CONSTRUCTION DETAILS

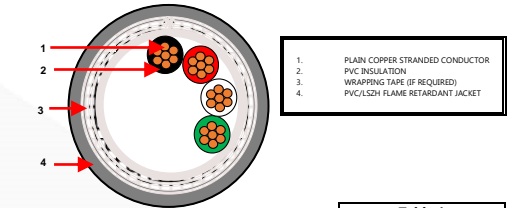
<b>STANDARDS</b>	Generally, to BS EN 50288-7, BS EN 50290-2, IEC 60332-1-2
<b>Conductor Material</b>	Plain annealed Copper to ASTM B3, Stranded conductor Class of ASTM. (22 AWG OR LARGER)
<b>Conductor Insulation</b>	Extruded Polyethylene compound
<b>Insulation color</b>	Black color with numbers or color coded (Table 1).
<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 Flame-Retardant Polyvinyl chloride (PVC) compound. Extruded Low Smoke Zero Halogen (LSZH) Flame Retardant compound. (Indoor application)
<b>Marking (Printing)</b>	ASH COM (no. of cores) X (size) AWG CU/PE/PVC SHIELDED ASHCABLES KSA (Year of Manufacture)
<b>Cable Cross sectional drawing</b>	Figure 1

Figure 1

SHIELDED



UNSHIELDED



## DIMENSIONS AND WEIGHTS

### UNSHIELDED TYPE

S/N	ASH CABLES ITEM CODE	CABLE SIZE (No. of cores) X (AWG)	INSULATION	OUTER SHEATH		Approx. Net Weight (Kg/Km)
			Thickness Nom.(mm)	Thickness Nom.(mm)	Overall Dia. Apprx. (mm)	
1	18B6-02C22AWG-UGR6A	2CX22 AWG (7X0.252)	0.35	0.60	5.10	35
2	18B6-03C22AWG-UGR6A	3CX22 AWG (7X0.252)	0.35	0.60	5.40	45
3	18B6-04C22AWG-UGR6A	4CX22 AWG (7X0.252)	0.35	0.60	5.70	50
4	18B6-05C22AWG-UGR6A	5CX22 AWG (7X0.252)	0.35	0.60	6.10	57
5	18B6-06C22AWG-UGR6A	6CX22 AWG (7X0.252)	0.35	0.60	6.30	62
6	18B6-07C22AWG-UGR6A	7CX22 AWG (7X0.252)	0.35	0.60	6.60	67
7	18B6-08C22AWG-UGR6A	8CX22 AWG (7X0.252)	0.35	0.60	6.90	75
8	18B6-09C22AWG-UGR6A	9CX22 AWG (7X0.252)	0.35	0.60	7.80	84
9	18B6-10C22AWG-UGR6A	10CX22 AWG (7X0.252)	0.35	0.60	8.20	90
10	18B6-11C22AWG-UGR6A	11CX22 AWG (7X0.252)	0.35	0.60	8.30	95
11	18B6-12C22AWG-UGR6A	12CX22 AWG (7X0.252)	0.35	0.60	8.80	102

### SHIELDED TYPE

S/N	ASH CABLES ITEM CODE	CABLE SIZE (No. of cores) X (AWG)	INSULATION	OUTER SHEATH		Approx. Net Weight (Kg/Km)
			Thickness Nom.(mm)	Thickness Nom.(mm)	Overall Dia. Apprx. (mm)	
1	19B6-02C22AWG-UGR6A	2CX22 AWG (7X0.252)	0.35	0.60	5.20	40
2	19B6-03C22AWG-UGR6A	3CX22 AWG (7X0.252)	0.35	0.60	5.50	43
3	19B6-04C22AWG-UGR6A	4CX22 AWG (7X0.252)	0.35	0.60	5.80	51
4	19B6-05C22AWG-UGR6A	5CX22 AWG (7X0.252)	0.35	0.60	6.30	58
5	19B6-06C22AWG-UGR6A	6CX22 AWG (7X0.252)	0.35	0.60	6.50	63
6	19B6-07C22AWG-UGR6A	7CX22 AWG (7X0.252)	0.35	0.60	6.70	67
7	19B6-08C22AWG-UGR6A	8CX22 AWG (7X0.252)	0.35	0.60	7.10	77
8	19B6-09C22AWG-UGR6A	9CX22 AWG (7X0.252)	0.35	0.60	7.90	86
9	19B6-10C22AWG-UGR6A	10CX22 AWG (7X0.252)	0.35	0.60	8.30	97
10	19B6-11C22AWG-UGR6A	11CX22 AWG (7X0.252)	0.35	0.60	8.70	99
11	19B6-12C22AWG-UGR6A	12CX22 AWG (7X0.252)	0.35	0.60	9.20	110

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

## ELECTRICAL PROPERTIES

22 AWG			
CONDUCTOR (DC)	MATERIAL TYPE	UNIT	
RESISTANCE @ 20°C(Ω/Km)	PLAIN Cu	Ω/Km	≤55.60
Operating Voltage		Vrms	300

## FLAME BEHAVIOUR, MECHANICAL & ENVIRONMENTAL PROPERTY

Operating Temperature	-20°C to +70°C
Bending Radius	10 X Cable Outer Diameter
Flame Retardance	IEC 60332-1-2

**PACKING** 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.

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