

# ASH FIRE ALARM TWO CORES CU/PVC/PVC 105°C (SHIELDED OR UNSHIELDED) E506797 (UL) LISTED CABLE

## APPLICATION:

- Fire Alarms, Burglar Alarms & Smoke Detectors.
- Voice Communication & Control Circuits.
- Audio, Notification & Initiating Circuits.

## CONSTRUCTION DETAILS

Reference Standard	UL 1424(FPLR, FPL), UL 1666	
Rated voltage	300 / 500V	
Conductor Material	Plain annealed solid copper conductor as per ASTM B3.	
Conductor Insulation	Extruded PVC- (Polyvinyl Chloride) rated 105°C.	
Insulation color	No. of cores	Core Identification
	2 Cores	Red, Black
Assembly	Insulated conductors are laid up to form a core and non-hygroscopic filler (if required)	
Overall Shield (OS) (For Shielding type)	Aluminum-backed Mylar tape (Al-Pet Foil) is applied over the assembly with 100% coverage with metal side in contact with a tinned solid copper drain wire. Drain wire size (22 AWG solid Tinned Copper to ASTM B33).	
Outer Sheathing	Extruded PVC- (Polyvinyl Chloride) rated 105°C. The color is Red or White. (or as per customer request)	
Marking (Printing)	For Unshielded Type: ASHFIRE (F117) TYPE FPLR (UL)E506797 (No. of cores) X size (AWG) CU/PVC/PVC UNSHIELDED 105°C 300V ASHCABLES KSA (YEAR OF MANUFACTURE) (METER MARKING)	
	For Shielded Type: ASHFIRE (F317) TYPE FPLR (UL)E506797 (No. of cores) X size (AWG) CU/PVC/OS/PVC SHIELDED 105°C ASHCABLES KSA (YEAR OF MANUFACTURE) (METER MARKING)	
Cable Cross sectional drawing	Figure 1	

## ELECTRICAL PROPERTY

	18 AWG	16 AWG	14 AWG	12 AWG	
Conductor DC Resistance @ 20°C	≤21.40	≤13.50	≤8.45	≤5.31	(Ω/km)
Voltage Drop	50	30	16	12	mV/Amp/m
Insulation Resistance	≥ 10 MΩ/km				
Voltage Rating	300V				

## FLAME BEHAVIOUR, MECHANICAL & ENVIRONMENTAL PROPERTY

Operating Temperature	-20°C to +105°C
Bending Radius	8 X Cable Outer Diameter
Flame Retardance	UL 1666
Oxygen Index	30% to ASTM D 2863

## PACKAGING AND JACKET COLORS

PACKING	1000 FT / 305 Meters (Spools) In cable Wooden Drum for special cutting requirement.
Jacket color	Any standard color is available upon request.



UL Report Ref.  
E506797-20190626



**ASH FIRE ALARM  
TWO CORES CU/PVC/PVC 105°C (SHIELDED OR UNSHIELDED)  
E506797 (UL) LISTED CABLE**

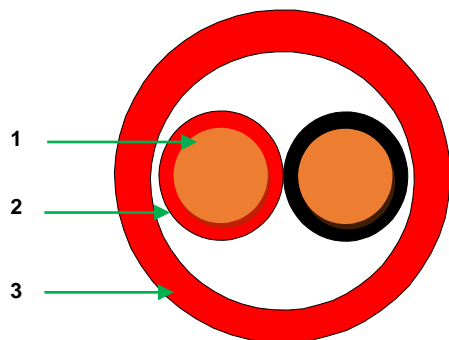
**DIMENSIONAL DATA SHEET  
TWO CORES CU/PVC/UNSHIELDED/PVC 105°C 300 V**

ITEM	ASH CABLES ITEM CODES	No. of cores	Size (AWG) (Wire Dia.)	NOM. INS. THICKNESS (mm)	NOM. OUTER SHEATH THICKNESS (mm)	APPRX. CABLE DIA. (mm)	Approx. Cable Weight (kg/km)	Standard Length (FT/m)
1	F117-02C18AWGUX4I	2	18 (1x1.02)	0.45	0.60	5.50	45	1000 / 305
2	F117-02C16AWGUX4I	2	16 (1x1.29)	0.45	0.60	6.20	55	1000 / 305
3	F117-02C14AWGUX4I	2	14 (1x1.63)	0.45	0.60	7.80	85	1000 / 305
4	F117-02C12AWGUX4I	2	12 (1x2.05)	0.45	0.60	8.60	115	1000 / 305

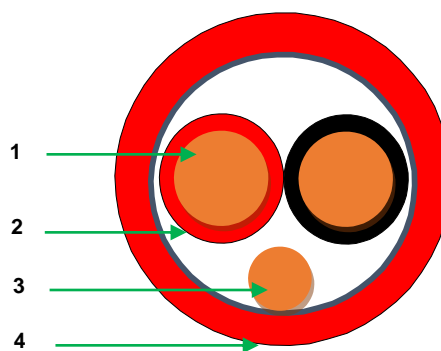
**TWO CORES CU/PVC/SHIELDED/PVC 105°C 300 V**

ITEM	ASH CABLES ITEM CODES	No. of cores	Size (AWG) (Wire Dia.)	NOM. INS. THICKNESS (mm)	NOM. OUTER SHEATH THICKNESS (mm)	APPRX. CABLE DIA. (mm)	Approx. Cable Weight (kg/km)	Standard Length (FT/m)
1	F317-02C18AWGUX4I	2	18 (1x1.02)	0.45	0.60	5.90	50	1000 / 305
2	F317-02C16AWGUX4I	2	16 (1x1.29)	0.45	0.60	6.50	60	1000 / 305
3	F317-02C14AWGUX4I	2	14 (1x1.63)	0.45	0.60	8.00	100	1000 / 305
4	F317-02C12AWGUX4I	2	12 (1x2.05)	0.45	0.60	9.00	130	1000 / 305

Figure 1  
2 Cores



1. PLAIN ANNEALED SOLID COPPER CONDUCTOR
2. PVC 105°C INSULATION
3. PVC 105°C FINAL JACKET (RED OR WHITE- AS PER REQUEST)



1. PLAIN ANNEALED SOLID COPPER CONDUCTOR
2. PVC 105°C INSULATION
3. SHIELDING (DRAIN WIRE + AL-PET FOIL)
4. PVC 105°C FINAL JACKET (RED OR WHITE- AS PER REQUEST)



UL Report Ref.  
E506797-20190626

