

CROSS SECTIONAL DRAWING - INST

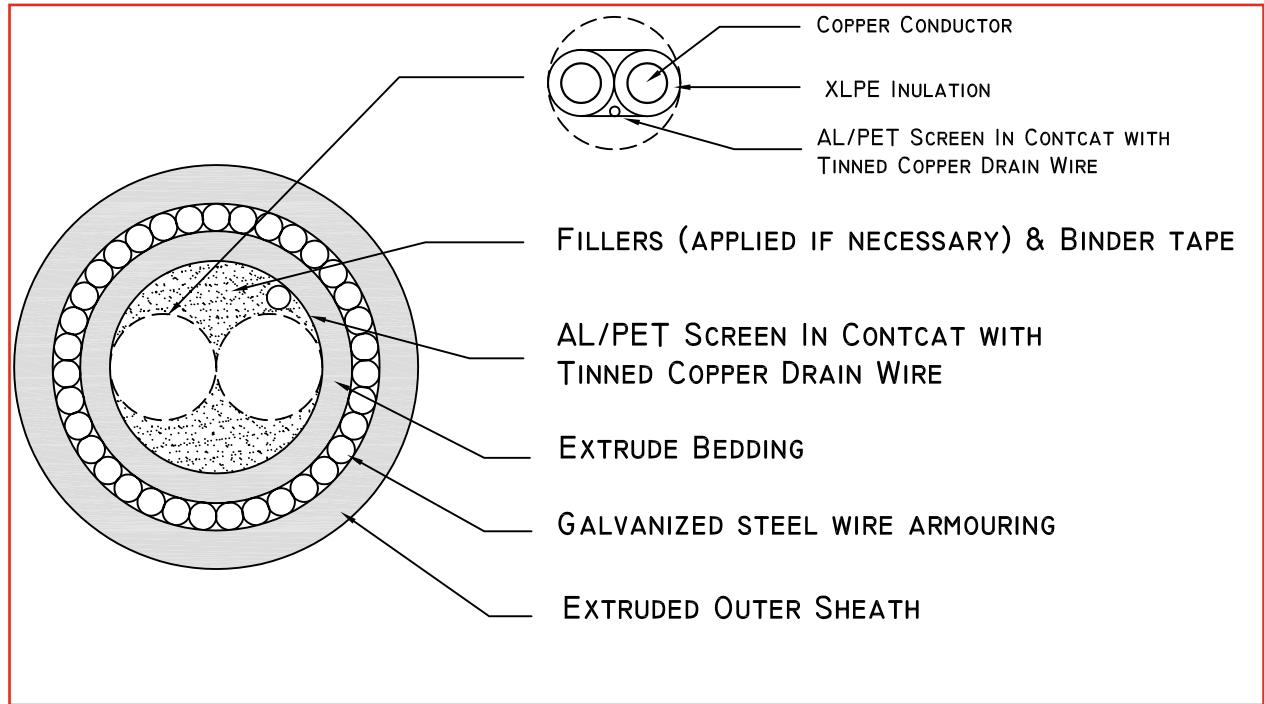
REF : NO 1047571_0

DESCRIPTION 0.5 kV, 2 P X 1.5mm², Cu (Cl2)/XLPE/IS+OS/PVC/SWA/PVC - ATMB-BLACK TO BSEN 50288 - 7

VOLTAGE (U₀/U) 300/500 V

DATE : 12/27/2016

SPECIFICATION BSEN 50288 - 7, FLAME RETARDANT TO IEC 60332-3 Cat A



This sketch is for 1 pair. Please make sure 2 pairs will be supplied.

Drawing not to Scale

ITEM	DESCRIPTION	Approx DIA (mm)
1	Stranded Copper Conductor	1.44
2	Extruded XLPE Insulation	2.74
3	Al / PET Individual Screen Contact with Tinned Copper Drain wire	5.6
4	2 Pair Laid up followed by Binder Tape	10.28
5	Al / PET Overall Screen Contact with Tinned Copper Drain wire	10.48
6	Extruded PVC Bedding	13.04
7	Single Layer (Steel) Wire Armour	14.78
8	Extruded PVC Outer Sheath (BLACK)	18

Please recheck if Gray color is available. if not, we can proceed with Black color

REF : NO	1047571_0	DATE	12/27/2016
DESCRIPTION	0.5 kV,2 P X 1.5mm ² , Cu (Cl ₂)/XLPE/IS+OS/PVC/SWA/PVC-BLACK TO BSEN 50288 - 7		
STANDARD	BSEN 50288 - 7, FLAME RETARDANT TO IEC 60332-3 Cat A		

Item	Description	Values	Units
1	Rated voltage (U₀/U)	300/500	V
2	Conductor		
	Number of Pair(s)	2	Nos
	Stranded Copper Conductor : Class 2		-
	Nominal cross sectional area	1.5	mm ²
	Conductor diameter (approx)	1.44	mm
3	Insulation		
	.(Core color black and white, with number printing on white core)	XLPE	-
	Nominal thickness	0.6	mm
	Diameter Over Insulation (approx)	2.74	mm
4	Pair		
	Makeup: 2 cores twisted together with a suitable lay-length to form a Pair		
5	Individual Screen		
	Each Pair shall have Aluminium / Polyester laminated tape applied with Metallic side down in electric contact with the Drain wire		
	Over-lap	25	%
	Drain wire cross section area (SOLID)	0.5	mm ²
6	Overall Screen		
	Aluminium / Polyester laminated tape applied Over the Laid up Pair with Metallic side down in electric contact with the Drain wire		
	Over-lap	25	%
	Drain wire cross section area (SOLID)	0.5	mm ²
7	Extruded PVC Bedding		
	Nominal Thickness	1.1	mm
	Diameter Over Bedding	13.04	mm
8	Single Layer (Steel) Wire Armour		
	Nominal Diameter	0.9	mm
	Diameter Over Armour (approx)	14.78	mm
9	Extruded PVC Outer Sheath (BLACK with Anti-termite)		
	Nominal Thickness	1.5	mm
	Overall diameter of cable (approx)	18	mm
10	Weight of complete cable	(approx) 549	kg / km
11	Electrical Characteristics		
	Voltage Test (For 1 min as per BSEN 50288 - 7	1	kV
	Minimum Insulation resistance at 20°C	1000	MΩ/km
	Maximum D.C. resistance of conductor at 20°C	12.342	Ω/km
	A.C.resistance of conductor at 90°C (approx)	15.7	Ω/km
	Maximum Mutual Capacitance at 1kHz	< 150	pF/m
	Maximum L / R Ratio	40	μH / Ω
12	Minimum bending radius of cable (6X OD)	108	