



C : +91 9172036887
M: info@jimreeves.in

FIXED DSPA FIRE SUPPRESSION SYSTEM			
PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	FIRE RETARDENT LOW SMOKE CABLE		
PART NO. :	F/A/B42/1/XX		
PRODUCT CODE :	2CRFRLS015/AR/SH.		
DOCUMENT NAME :	FIRE RETARDENT CABLE – DATA SHEET		
DOC NO.:	CAGS/10.0.1	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0

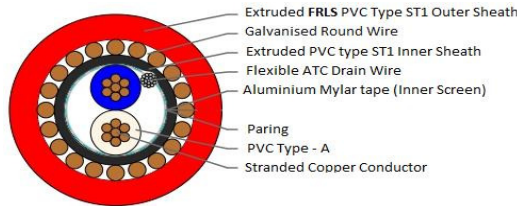


- 1). Make : POLYCAB / CAGS-DSPA
- 2). Type : FRLS, twisted pair, Shielded, armoured cable with casing and capping.
- 3). Size : 2x 1.5 Sq.mm



Design Code : ICIS04CYSWYL001P1.5SA004S

Date : **Rev No. :**



S.No	Particulars	1P X 1.5
1	Name of Manufacturer	Polycab Wires Pvt. Ltd
2	Type of cable	Overall Screened
3	Voltage Grade V	300/500
4	No of Elements X Size in mm ²	1P X 1.5
5	Conductor	
a)	Material	Plain Stranded Copper as per IS: 8130
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	12.1
c)	Shape of the conductor	Stranded Circular
6	Insulation	
a)	Material	PVC Type A
b)	Minimum thickness (mm)	0.44
c)	Core Identification	White & Blue
7	Collective Screen	
a)	Material	Aluminium mylar tape
b)	Nominal Thickness mm	0.018
c)	Material of Drain Wire	Flexible ATC
d)	Size of Drain Wire	0.5 mm ² (16/0.2mm)
8	Inner Sheath	
a)	Material	Extruded PVC Type ST1 as per IS:5831
b)	Minimum thickness (mm)	0.3
9	Armouring	
a)	Material	Galvanised Steel
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm) ± 0.035	0.90
10	Outer Sheath	
i)	Material	Extruded FRLS PVC Type ST1 as per IS:5831
ii)	Thickness (mm)	1.24 (Min.)
iii)	Colour of outer sheath.	RED
11	FRLS PROPERTIES	
a)	Oxygen Index	Min. 29% as per ASTM D- 2863





C : +91 9172036887
M: info@jimreeves.in

FIXED DSPA FIRE SUPPRESSION SYSTEM

PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	FIRE RETARDENT LOW SMOKE CABLE		
PART NO. :	F/A/B42/1/XX		
PRODUCT CODE :	2CRFRLS015/AR/SH.		
DOCUMENT NAME :	FIRE RETARDENT CABLE – DATA SHEET		
DOC NO.:	CAGS/10.0.1	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0



KNOVAL
TECHNOLOGIES

S.No	Particulars	1P X 1.5
b)	Temperature Index	Min. 250 Deg.C as per ASTM D- 2863
c)	Smoke Density Rating	Max. 60% as per ASTM D- 2843
d)	Acid Gas Generation	Max. 20% as per IEC- 754- 1
12 a)	Maximum conductor temperature under normal operating conditions °C	70
b)	Maximum conductor temperature at the termination of short circuit °C	160
c)	Short Circuit rating of conductor for the duration of 1 sec (kA)	0.17
13	Minimum bending radius	12 times Overall diameter
14	Electrical Parameters	
a)	Max. a.c. resistance of conductor at operating temperature (Ω/km)	14.5
b)	Mutual capacitance nf/km	<250
c)	Insulation resistance MΩ/km	10.0
d)	Inductance to resistance ratio (L/R) μH/Ω	<40
e)	Dielectric strength for 1 minute (H.V Test) kV	2.0
15	Max. tensile strength for Cables pulled with stocking (Newtons)	9 x D ² , D is the cable OD in mm
16	Nominal Overall diameter of cable mm	11.5 ± 2.0
17	Printing	YEAR POLYCAB 300/500 VOLTS GRADE FRLS CABLE SIZE, SCREENED with SEQUENTIAL LENGTH MARKING at EVERY ONE METER INTERVAL

Note:-The values given above are subject to tolerances as per the relevant standards.

