

Technical Datasheet of Flexible Cables			LDIS09CYUAYL003C120S
Sr.No.	Description	Unit	3C X 120 Sq. mm.
1	Manufacturer Name		Polycab Wires Private Limited
2	Brand Name		POLYCAB
3	Rated Voltage		1100V
4	<b>CONDUCTOR</b>		
	a) Material		Plain annealed high conductivity Flexible copper conductor as per Class 5 of IS 8130/2013 latest
	b) Conductor Size	Sq.mm	120.0
	c) Max. D.C Cond. Resistance at 20 Deg. C.	Ohm/km	0.161
5	<b>INSULATION</b>		
	a) Material		<b>HR-PVC Type 'C'</b>
	b) Nominal Thickness in mm.	mm	1.6
	c) Core Identification		Red, Yellow & Blue
6	<b>Sheath</b>		
	Material		<b>Extruded FR-LSH PVC Type 'ST2' as per IS:5831/84</b>
	Nominal Thickness in mm.		2.5
	Sheath Colour		Black
	<b>FR-LSH PROPERTIES</b>		
	Oxygen Index		Min. 29% as per ASTM D- 2863
	Temperature Index		Min. 250 Deg.C as per ASTM D- 2863
	Smoke Density Rating		Max. 60% as per ASTM D- 2843
	Acid Gas Generation		Max. 20% as per IEC- 754- 1
7	<b>Maximum Overall Diameter</b>	mm	<b>51.0</b>
8	Current rating	Amps	282
9	Max. conductor temp. under normal operating conditions	°C	85°C
10	Max conductor temp at the termination of short circuit	°C	160°C
11	Standards to which the cables confirm		As per IS 8130/2013,IS 694/2010, etc. with latest up to date amendments
12	Recommended minimum bending radius in mm		8 times the overall diameter of the cable
13	Max. Tensile strength when pulled with pulling eye	Kg	1835
14	Printing		<b>POLYCAB 1100 V, NO.OF CORE X SQ.MM HR-FR-LSH</b>