Ducab FlamBICC 2a

LPCB Certificates 781,782 & 949

DUCAB FLAMBICC 2a ENHANCED

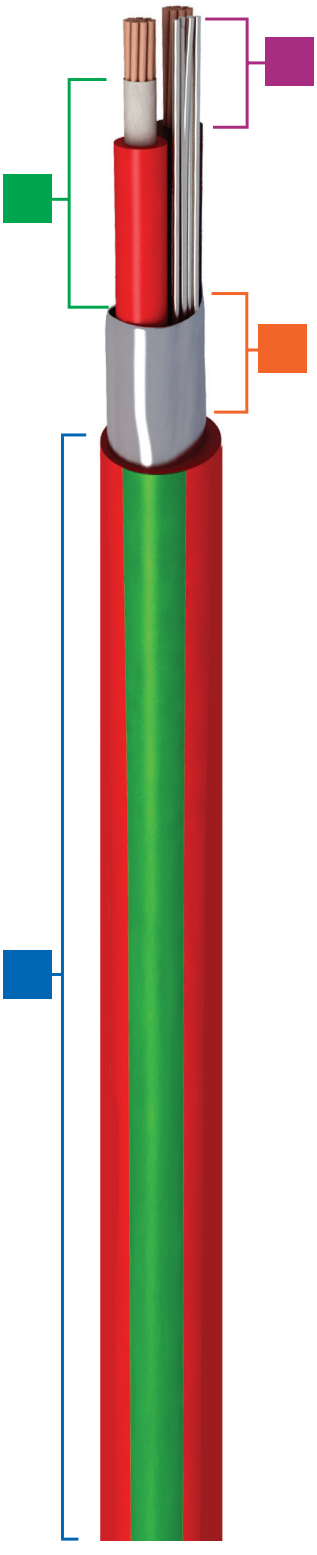
These are 'ENHANCED' Fire Resistant screened cables having low emission of smoke and corrosive gases when affected by fire. These cables are designed to meet fire resistance test of BS EN 50200: 2000 Class PH120 when tested with a 930°C flame and with water spray as per BS 8434-2

These cables are certified with LPCB and BASEC approval.

CONSTRUCTION

- **Conductor**: Plain annealed copper conductor complying with BS EN 60228, class 1 or 2
- **Insulation**: Mica Glass tape followed by Special insulation to meet fire performance characteristics
- **Screen**: Laminated aluminium tape screen in contact with full size tinned annealed copper circuit protective conductor
- **Sheath**: Robust LSZH (LSHF / LSOH) sheath

  Optional: Longitudinal GREEN STRIPE Identification on outer sheath.



CHARACTERISTICS

General:	Ducab FlamBICC 2a ENHANCED are screened cables designed as per BS 7629 for applications requiring 'enhanced' fire resistance (BS 5839-1, 26.2-e, BS 8434-2).
Approvals:	LPCB Approval to BS 7629-1, BS 8434-2, BS 5839-1 (clause 26.2 e), BS EN 50200 Class PH120
Voltage grade:	300 / 500 V
Fire resistance:	Class PH 120 of BS EN 50200 and BS 8434-2. Meets requirement of 'enhanced' fire resistant cable as per BS 5839-1 (clause 26.2 e)
Flame Propagation test:	IEC 60332 -1-2
Acid gas emission:	Less than 0.5% when tested to IEC 60754 & BS EN 50267
Low smoke emission:	As per IEC 61034 & BS EN 50268
Cable Operating temperature:	Maximum 90°C
Short circuit temperature	Maximum 250°C
Colours	White or Red Sheath are standard, other colours available on request.
Packaging	500 meter reels: Other packaging and lengths available on request
Key Applications	'ENHANCED' fire resistant cables are recommended for special usage in fire detection, voice alarm, addressable system and emergency lighting in critical signal paths. Essential Critical Control Circuits & signal paths
Salient features	Highly durable, easy to terminate. Optional: Longitudinal GREEN STRIPE Identification on outer sheath.

TECHNICAL DATA

300 / 500 V

No. of Cores	Nominal conductor area (mm^2)	Class of conductor	Nominal insulation thickness (mm)	Nominal OD (mm)	Minimum bending radius (mm)	Approx cable weight (kg/km)	Max Conductor Resistance at 20° C (ohm/km)	Current rating* (Clipped Direct) (Amps)	Voltage drop* (mV/A/m)
2	1.5	1	0.7	9.1	64	103	12.1	19.5	29
2	2.5	1	0.8	9.7	68	140	7.41	27	18
2	4	2	0.8	11.6	82	209	4.61	36	11
3	1.5	1	0.7	9.6	68	135	12.1	17.5	25
3	2.5	1	0.8	10.7	75	186	7.41	24	15
3	4	2	0.8	12.4	87	267	4.61	32	9.5
4	1.5	1	0.7	10.7	75	165	12.1	17.5	25
4	2.5	1	0.8	11.9	84	234	7.41	24	15
4	4	2	0.8	13.7	96	335	4.61	32	9.5

* - 1Ø for 2 core cables and 3Ø for others

CORE IDENTIFICATIONS