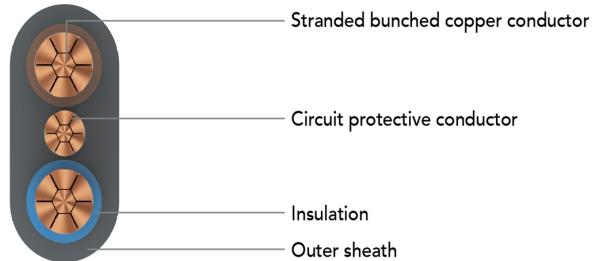


# POLY CAB 6241Y/6242Y/6243Y BS 6004 MC Lighting & Appliance wire, 300/500 V AC

**POLY CAB**  
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB 6241Y/6242Y/6243Y BS 6004 MC stranded copper conductor PVC insulated and PVC sheathed multicore flat cable confirm the requirement as per BS 6004. These cables are intended to use for electric power and lighting application.

## CHARACTERISTICS

### Voltage Rating

300/500 V

### Operation Temperature

Fixed: -15°C to +70° C

Max. short circuit temp. 160°C

### Bending Radius

Fixed installation > 8 x Overall Diameter  
Occasional > 6 x Overall Diameter

## CONSTRUCTION

- Annealed stranded or solid copper conductor as per EN 60228, class 2 or Class 1
- Insulated with PVC Type TI 1 to EN 50363-3
- Bare circuit protective conductor
- Sheathed with PVC Type 6 to BS 7655-4.2

### Core Identification

Twin core Brown and Blue or 2 x 1 & 2 x 1.5 cables, Brown and Brown with number printing.

Three core Brown, Black (Centre core) and Grey

### Position of CPC

Twin core      Centrally placed between cores in same plane  
Three core      Centrally placed between black and grey cores in same plane

### Test Voltage

2000V AC at (20±5) °C

## OUTSTANDING FEATURES

- Flame Propagation
- UV stability
- Heat Stability

## STANDARD FOLLOWS

IEC 60228

EN 50363-3

BS 7655-4.2

BS 6004:2000

## COMPLIANCE

Conductor Resistance test - IEC 60228

Insulation Resistance test - BS 6004

Flame propagation - EN 60332-1-2

## OUR ACCREDITATIONS



## APPROVAL



**POLY CAB 6241Y/6242Y/6243Y BS 6004 MC  
Lighting & Appliance wire, 300/500 V AC**

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**WEIGHT & DIMENSION DATA :**

Product Code	Construction  n x mm <sup>2</sup>	Class of conductor	Nominal insulation thickness mm	Overall Dimension	Weight
				(Approx.) mm	(Approx.) kg/km
LDBS04CYUAYA001C001S	1 x 1	1	0.6	4.2 x 5.4	51
LDBS04CYUAYA001C1.5S	1 x 1.5	1	0.7	4.6 x 5.8	65
LDBS04CYUAYA001C1.5S	1 x 1.5	2	0.7	4.8 x 6	68
LDBS04CYUAYA002C001S	2 x 1	1	0.6	4.2 x 5.4	71
LDBS04CYUAYA002C1.5S	2 x 1.5	1	0.7	4.6 x 5.8	90
LDBS04CYUAYA002C1.5S	2 x 1.5	2	0.7	4.8 x 6	94
LDBS04CYUAYA002C2.5S	2 x 2.5	1	0.8	5.4 x 10.2	135
LDBS04CYUAYA002C2.5S	2 x 2.5	2	0.8	5.6 x 10.6	138
LDBS04CYUAYA002C004S	2 x 4	2	0.8	6.18 x 11.76	193
LDBS04CYUAYA002C006S	2 x 6	2	0.8	6.92 x 13.44	265
LDBS04CYUAYA002C010S	2 x 10	2	1	8.45 x 17.08	373
LDBS04CYUAYA002C016S	2 x 16	2	1	9.7 x 19.95	540
LDBS04CYUAYA003C001S	3 x 1	1	0.6	4.2 x 10.2	95
LDBS04CYUAYA003C1.5S	3 x 1.5	1	0.7	4.6 x 11.4	122
LDBS04CYUAYA003C2.5S	3 x 2.5	1	0.8	5.4 x 13.6	183
LDBS04CYUAYA003C004S	3 x 4	2	0.8	6.38 x 16.14	268
LDBS04CYUAYA003C006S	3 x 6	2	0.8	6.92 x 18.16	358
LDBS04CYUAYA003C010S	3 x 10	2	1	8.45 x 23.13	523
LDBS04CYUAYA003C016S	3 x 16	2	1	9.7 x 27.05	759

**Electrical characteristics**

**Current carrying capacity and maximum DC conductor resistance.**

Nominal cross sectional area mm <sup>2</sup>	Reference method A* (in conduit in wall) Amp.	Reference method C* (clipped direct) Amp.	Max. DC conductor Resistance at 20°C Ω/km
1	11.5	16	18.1
1.5	14.5	20	12.1
2.5	20	27	7.41
4	26	37	4.61
6	32	47	3.08
10	44	64	1.83
16	57	85	1.15

Ambient temperature: 30°C

Conductor operating temperature: 70°C

The above table is in accordance with Table 4D5 of BS 7671:2018

Note- A\* For full installation method refer to Table 4A2 Installation Method 2 but for flat twin and earth cable of the 17th Edition of IEE Wiring Regulations.

C\* For full installation method refer to Table 4A2 Installation Method 20 but for flat twin and earth cable of the 17th Edition of IEE Wiring Regulations.

**De-Rating Factor**

**De-rating factor for 70°C thermoplastic or thermosetting insulated cable**

Air Temperature	35°C	40°C	45°C	50°C	55°C
De-rating factor	0.91	0.82	0.71	0.58	0.41