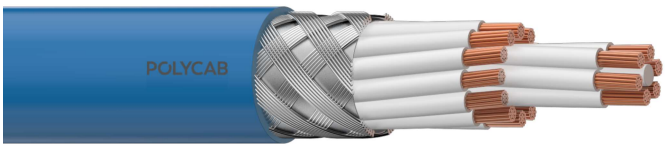
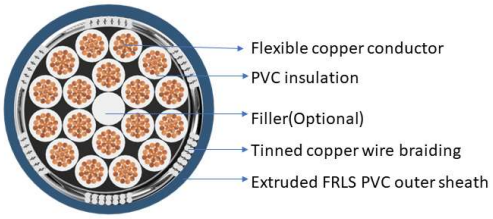
# POLYCAB BMS 500 MC -C4
## BMS Cable PVC Insulated Overall Braided 500V.




Images not to scale. Follow table for dimensions

## APPLICATION

POLYCAB BMS 500 MC-C4, Flexible copper conductor, PVC insulated, laid up with tinned copper braided and FRLS sheathed cable confirming to BS EN 50288-7 are designed for transmission of analogue and digital signals in Building management system. POLYCAB BMS 500 MC-C4 cables are used for diverse applications for control & monitoring of service provided within the building.

## CHARACTERISTICS

**Voltage Rating**
500 V

**Operation Temperature**
Max.: PVC 70°C

**Bending Radius**
12 x Overall diameter

## CONSTRUCTION

- Flexible (Class 5) Copper conductor as per EN 60228
- Insulated with PVC Type A as per EN 50288-7
- Tinned copper wire braided.
- Sheathed with Extruded PVC FRLS as per EN 50290-2-22

**Core Identification**
White/Grey core with number printing.

Outer sheath colour: Blue

## OUTSTANDING FEATURES

Flame Retardant
Low smoke emission
High life
Flexible

## STANDARD FOLLOWS

EN 50288-7
EN 50288-1
EN 60228
EN 50290-2-22
EN 60332-1-2

## COMPLIANCE

Conductor resistance - EN 60228
Insulation resistance - EN 50288-7
L/R Ratio - EN 50288-7
Mutual capacitance - EN 50288-7

## OUR ACCREDITATIONS

## APPROVAL

## NOTES

As per the application/identification requirement, other colour also available on request.

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POLYCAB
IDEAS. CONNECTED.

**Weight & Dimension Data**

**500 VOLTS, MULTI CORE, FLEX.COPPER, PVC TYPE A INSULATED, OVERALL TINNED COPPER WIRE BRAIDED BMS CABLES AS PER EN 50288-7**

| Area of conductor | No.of core | Min. thickness of insulation | Nominal thickness of outer sheath | Nominal overall Diameter | Approx. weight |
|---|---|---|---|---|---|
| sqmm | | mm | mm | mm | kg/km |
| 0.5 | 2 | 0.44 | 0.86 | 5.6 | 45 |
| 0.5 | 3 | 0.44 | 0.87 | 5.9 | 55 |
| 0.5 | 4 | 0.44 | 0.89 | 6.4 | 66 |
| 0.5 | 5 | 0.44 | 0.91 | 7.0 | 77 |
| 0.5 | 6 | 0.44 | 0.94 | 7.6 | 89 |
| 0.5 | 7 | 0.44 | 0.94 | 7.6 | 97 |
| 0.5 | 8 | 0.44 | 0.97 | 8.4 | 111 |
| 0.5 | 10 | 0.44 | 1.01 | 9.5 | 135 |
| 0.5 | 12 | 0.44 | 1.02 | 9.8 | 152 |
| 0.5 | 16 | 0.44 | 1.06 | 10.8 | 191 |
| 0.5 | 18 | 0.44 | 1.08 | 11.4 | 211 |
| 0.5 | 19 | 0.44 | 1.08 | 11.4 | 218 |
| 0.5 | 20 | 0.44 | 1.10 | 12.1 | 231 |
| 0.5 | 24 | 0.44 | 1.15 | 13.4 | 274 |
| 0.75 | 2 | 0.44 | 0.88 | 6.1 | 54 |
| 0.75 | 3 | 0.44 | 0.89 | 6.4 | 66 |
| 0.75 | 4 | 0.44 | 0.91 | 7.0 | 81 |
| 0.75 | 5 | 0.44 | 0.94 | 7.6 | 96 |
| 0.75 | 6 | 0.44 | 0.96 | 8.2 | 111 |
| 0.75 | 7 | 0.44 | 0.96 | 8.2 | 121 |
| 0.75 | 8 | 0.44 | 1.00 | 9.2 | 139 |
| 0.75 | 10 | 0.44 | 1.04 | 10.4 | 170 |
| 0.75 | 12 | 0.44 | 1.05 | 10.7 | 193 |
| 0.75 | 16 | 0.44 | 1.10 | 11.9 | 244 |
| 0.75 | 18 | 0.44 | 1.12 | 12.5 | 270 |
| 0.75 | 19 | 0.44 | 1.12 | 12.5 | 280 |

# POLYCAB BMS 500 MC -C4
## BMS Cable PVC Insulated Overall Braided 500V.

| Area of conductor | No.of core | Min. thickness of insulation | Nominal thickness of outer sheath | Nominal overall Diameter | Approx. weight |
|---|---|---|---|---|---|
| sqmm | | mm | mm | mm | kg/km |
| 0.75 | 20 | 0.44 | 1.15 | 13.2 | 297 |
| 0.75 | 24 | 0.44 | 1.20 | 14.7 | 352 |
| 1 | 2 | 0.44 | 0.89 | 6.4 | 62 |
| 1 | 3 | 0.44 | 0.91 | 6.8 | 78 |
| 1 | 4 | 0.44 | 0.93 | 7.4 | 95 |
| 1 | 5 | 0.44 | 0.95 | 8.1 | 113 |
| 1 | 6 | 0.44 | 0.98 | 8.8 | 132 |
| 1 | 7 | 0.44 | 0.98 | 8.8 | 144 |
| 1 | 8 | 0.44 | 1.02 | 9.8 | 166 |
| 1 | 10 | 0.44 | 1.07 | 11.1 | 203 |
| 1 | 12 | 0.44 | 1.08 | 11.5 | 232 |
| 1 | 16 | 0.44 | 1.13 | 12.8 | 294 |
| 1 | 18 | 0.44 | 1.15 | 13.5 | 327 |
| 1 | 19 | 0.44 | 1.15 | 13.5 | 339 |
| 1 | 20 | 0.44 | 1.18 | 14.2 | 360 |
| 1 | 24 | 0.44 | 1.24 | 15.8 | 428 |
| 1.5 | 2 | 0.44 | 0.92 | 7.0 | 76 |
| 1.5 | 3 | 0.44 | 0.93 | 7.4 | 97 |
| 1.5 | 4 | 0.44 | 0.96 | 8.1 | 120 |
| 1.5 | 5 | 0.44 | 0.98 | 8.9 | 144 |
| 1.5 | 6 | 0.44 | 1.01 | 9.7 | 168 |
| 1.5 | 7 | 0.44 | 1.01 | 9.7 | 185 |
| 1.5 | 8 | 0.44 | 1.06 | 10.8 | 214 |
| 1.5 | 10 | 0.44 | 1.11 | 12.3 | 262 |
| 1.5 | 12 | 0.44 | 1.13 | 12.7 | 301 |
| 1.5 | 16 | 0.44 | 1.18 | 14.1 | 385 |
| 1.5 | 18 | 0.44 | 1.21 | 14.9 | 428 |
| 1.5 | 19 | 0.44 | 1.21 | 14.9 | 446 |

# POLYCAB BMS 500 MC -C4
## BMS Cable PVC Insulated Overall Braided 500V.

| Area of conductor | No.of core | Min. thickness of insulation | Nominal thickness of outer sheath | Nominal overall Diameter | Approx. weight |
|---|---|---|---|---|---|
| sqmm | | mm | mm | mm | kg/km |
| 1.5 | 20 | 0.44 | 1.24 | 15.8 | 473 |
| 1.5 | 24 | 0.44 | 1.31 | 17.6 | 563 |
| 2.5 | 2 | 0.53 | 0.97 | 8.4 | 110 |
| 2.5 | 3 | 0.53 | 0.99 | 8.9 | 143 |
| 2.5 | 4 | 0.53 | 1.02 | 9.8 | 179 |
| 2.5 | 5 | 0.53 | 1.05 | 10.7 | 215 |
| 2.5 | 6 | 0.53 | 1.09 | 11.7 | 253 |
| 2.5 | 7 | 0.53 | 1.09 | 11.7 | 282 |
| 2.5 | 8 | 0.53 | 1.14 | 13.2 | 325 |
| 2.5 | 10 | 0.53 | 1.21 | 15.0 | 401 |
| 2.5 | 12 | 0.53 | 1.23 | 15.6 | 464 |
| 2.5 | 16 | 0.53 | 1.30 | 17.4 | 598 |
| 2.5 | 18 | 0.53 | 1.34 | 18.4 | 667 |
| 2.5 | 19 | 0.53 | 1.34 | 18.4 | 695 |
| 2.5 | 20 | 0.53 | 1.38 | 19.5 | 737 |
| 2.5 | 24 | 0.53 | 1.46 | 21.7 | 879 |

For Cables of sizes or cores not listed above the product data is available on request
Dimensions & Weights are representative figures and may vary

**Electrical Parameter**

| Area of Conductor | Max. DC resistance of conductor at 20°C Plain wires | Insulation resistance (PVC) | Mutual capacitance (PVC) | Inductance to resistance ratio(L/R) |
|---|---|---|---|---|
| Sqmm | Ohm/km | MΩ/Km | nf/Km | µH/Ω |
| 0.5 | 39 | 10 | 250 | < 25 |
| 0.75 | 26 | 10 | 250 | < 25 |
| 1 | 19.5 | 10 | 250 | < 25 |
| 1.5 | 13.3 | 10 | 250 | < 40 |
| 2.5 | 7.98 | 10 | 250 | < 60 |