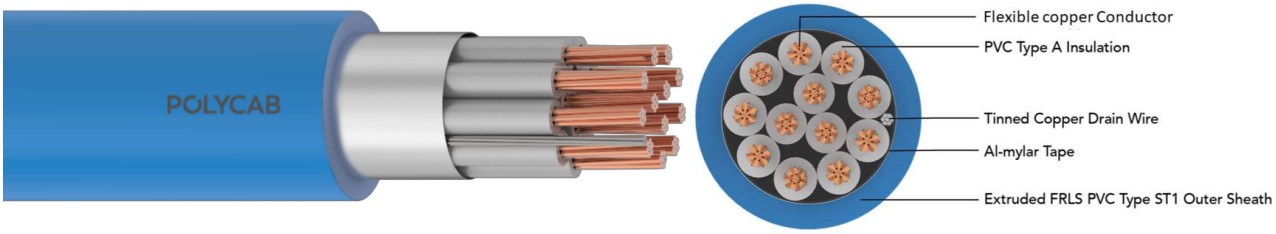
POLYCAB BMS 500 MC-A7
BMS Cable shielded 500V



Images not to scale. Follow table for dimensions

APPLICATION
POLYCAB BMS 500 MC-A7, Flexible copper conductor, PVC insulated, Al-mylar shielded unarmoured and FRLS sheathed cable confirming to EN 50288-7 are designed for transmission of analogue and digital signals in Building management system. POLYCAB BMS 500 MC-A7 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
• Collective screen Al/PET (Aluminium /Polyester tape) with drain wire of tinned Cu
• Sheathed with Extruded PVC FRLS

Core Identification
White/Grey core with number printing.
Outer sheath colour: Blue

OUTSTANDING FEATURES
Flame retardant
Low smoke
Flexible

STANDARD FOLLOWS
EN 50288-7
EN 50288-1
EN 60228
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
NABL

APPROVAL
FQC CE

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, ALUMINIUM MYLAR TAPED OVERALL SHIELDED, UNARMOURED 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	0.85	5.56	42
0.5	3	0.44	0.87	5.87	51
0.5	4	0.44	0.88	6.38	61
0.5	5	0.44	0.90	6.92	72
0.5	6	0.44	0.93	7.50	83
0.5	7	0.44	0.93	7.50	90
0.5	8	0.44	0.96	8.37	103
0.5	10	0.44	1.00	9.44	125
0.5	12	0.44	1.01	9.74	142
0.5	16	0.44	1.05	10.79	178
0.5	18	0.44	1.07	11.37	197
0.5	19	0.44	1.07	11.37	205
0.5	20	0.44	1.09	12.01	217
0.5	24	0.44	1.14	13.31	257
0.75	2	0.44	0.87	6.01	50
0.75	3	0.44	0.88	6.35	62
0.75	4	0.44	0.90	6.91	75
0.75	5	0.44	0.93	7.52	89
0.75	6	0.44	0.95	8.16	103
0.75	7	0.44	0.95	8.16	113
0.75	8	0.44	0.99	9.13	130
0.75	10	0.44	1.03	10.32	158
0.75	12	0.44	1.04	10.67	181
0.75	16	0.44	1.09	11.83	230
0.75	18	0.44	1.11	12.48	255
0.75	19	0.44	1.11	12.48	265

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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	1.14	13.19	281
0.75	24	0.44	1.19	14.63	333
1	2	0.44	0.88	6.38	58
1	3	0.44	0.90	6.76	72
1	4	0.44	0.92	7.36	89
1	5	0.44	0.95	8.02	106
1	6	0.44	0.97	8.72	123
1	7	0.44	0.97	8.72	135
1	8	0.44	1.01	9.78	156
1	10	0.44	1.06	11.07	190
1	12	0.44	1.07	11.44	218
1	16	0.44	1.12	12.71	279
1	18	0.44	1.14	13.41	310
1	19	0.44	1.14	13.41	322
1	20	0.44	1.17	14.18	342
1	24	0.44	1.23	15.75	406
1.5	2	0.44	0.91	6.97	71
1.5	3	0.44	0.92	7.39	91
1.5	4	0.44	0.95	8.07	113
1.5	5	0.44	0.97	8.81	135
1.5	6	0.44	1.00	9.60	158
1.5	7	0.44	1.00	9.60	175
1.5	8	0.44	1.05	10.79	201
1.5	10	0.44	1.10	12.24	248
1.5	12	0.44	1.12	12.66	286
1.5	16	0.44	1.17	14.08	367
1.5	18	0.44	1.20	14.88	409
1.5	19	0.44	1.20	14.88	426

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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	1.23	15.75	452
1.5	24	0.44	1.30	17.51	539
2.5	2	0.53	0.96	8.34	102
2.5	3	0.53	0.98	8.87	134
2.5	4	0.53	1.01	9.73	168
2.5	5	0.53	1.04	10.66	203
2.5	6	0.53	1.08	11.66	240
2.5	7	0.53	1.08	11.66	268
2.5	8	0.53	1.14	13.15	309
2.5	10	0.53	1.20	14.98	382
2.5	12	0.53	1.22	15.51	443
2.5	16	0.53	1.29	17.30	574
2.5	18	0.53	1.33	18.30	641
2.5	19	0.53	1.33	18.30	669
2.5	20	0.53	1.37	19.40	709
2.5	24	0.53	1.45	21.62	848

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