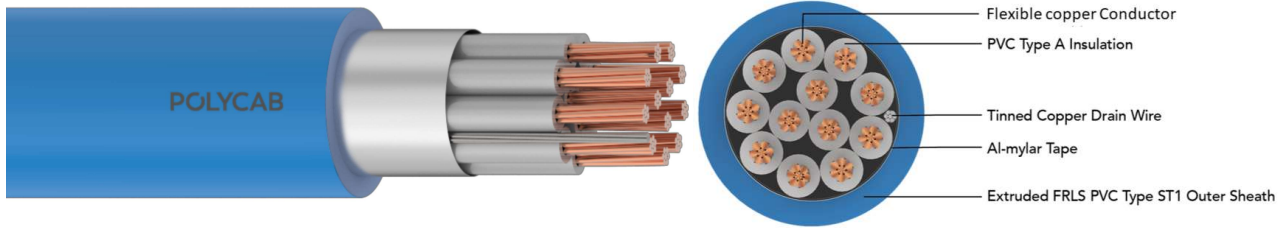


# POLYCAB BMS 300 MC-A7

## BMS Cable shielded 300V



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB BMS 300 MC-A7, Flexible copper conductor, PVC insulated, Al-mylar shielded unarmoured and FRLS sheathed cable conforming to EN 50288-7 are designed for transmission of analogue and digital signals in Building management system. POLYCAB BMS 300 MC-A7 cables are used for diverse applications for control & monitoring of service provided within the building.

### CHARACTERISTICS

**Voltage Rating**  
300 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

High life  
Flame retardant  
Flexible  
Low smoke

### 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



### APPROVAL



### NOTES

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

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### Weight & Dimension Data :

300 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	0.26	0.83	4.79	35
0.5	3	0.26	0.83	5.03	43
0.5	4	0.26	0.85	5.44	51
0.5	5	0.26	0.87	5.87	59
0.5	6	0.26	0.	6.33	68
0.5	7	0.26	0.88	6.33	74
0.5	8	0.26	0.91	7.03	84
0.5	10	0.26	0.94	7.88	101
0.5	12	0.26	0.95	8.13	115
0.5	16	0.26	0.98	8.96	144
0.5	18	0.26	1.00	9.43	159
0.5	19	0.26	1.00	9.43	165
0.5	20	0.26	1.02	9.94	175
0.5	24	0.26	1.05	10.97	207
0.75	2	0.26	0.84	5.23	43
0.75	3	0.26	0.85	5.51	53
0.75	4	0.26	0.87	5.97	64
0.75	5	0.26	0.89	6.47	75
0.75	6	0.26	0.91	7.00	87
0.75	7	0.26	0.91	7.00	95
0.75	8	0.26	0.94	7.79	109
0.75	10	0.26	0.97	8.77	133
0.75	12	0.26	0.98	9.05	151
0.75	16	0.26	1.02	10.00	192
0.75	18	0.26	1.04	10.53	213
0.75	19	0.26	1.04	10.53	221

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## BMS Cable shielded 300V

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	0.26	1.06	11.12	234
0.75	24	0.26	1.10	12.30	278
1	2	0.26	0.86	5.60	50
1	3	0.26	0.87	5.92	63
1	4	0.26	0.89	6.42	77
1	5	0.26	0.91	6.97	91
1	6	0.26	0.93	7.56	106
1	7	0.26	0.93	7.56	116
1	8	0.26	0.96	8.44	133
1	10	0.26	1.00	9.51	163
1	12	0.26	1.01	9.82	187
1	16	0.26	1.05	10.88	238
1	18	0.26	1.07	11.47	265
1	19	0.26	1.07	11.47	276
1	20	0.26	1.10	12.11	292
1	24	0.26	1.15	13.42	347
1.5	2	0.35	0.89	6.58	66
1.5	3	0.35	0.91	6.97	85
1.5	4	0.35	0.93	7.60	106
1.5	5	0.35	0.96	8.29	127
1.5	6	0.35	0.98	9.02	148
1.5	7	0.35	0.98	9.02	164
1.5	8	0.35	1.02	10.12	189
1.5	10	0.35	1.07	11.46	232
1.5	12	0.35	1.09	11.85	268
1.5	16	0.35	1.14	13.17	344
1.5	18	0.35	1.16	13.90	383
1.5	19	0.35	1.16	13.90	399
1.5	20	0.35	1.19	14.71	423

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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	24	0.35	1.25	16.35	504

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