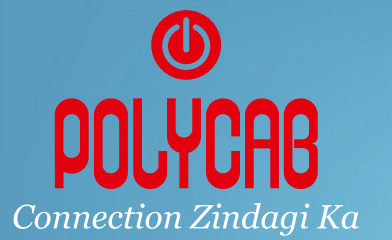




TEGH CABLES PVT.LTD

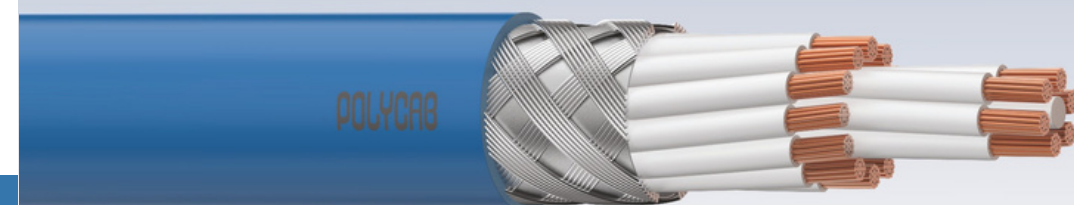
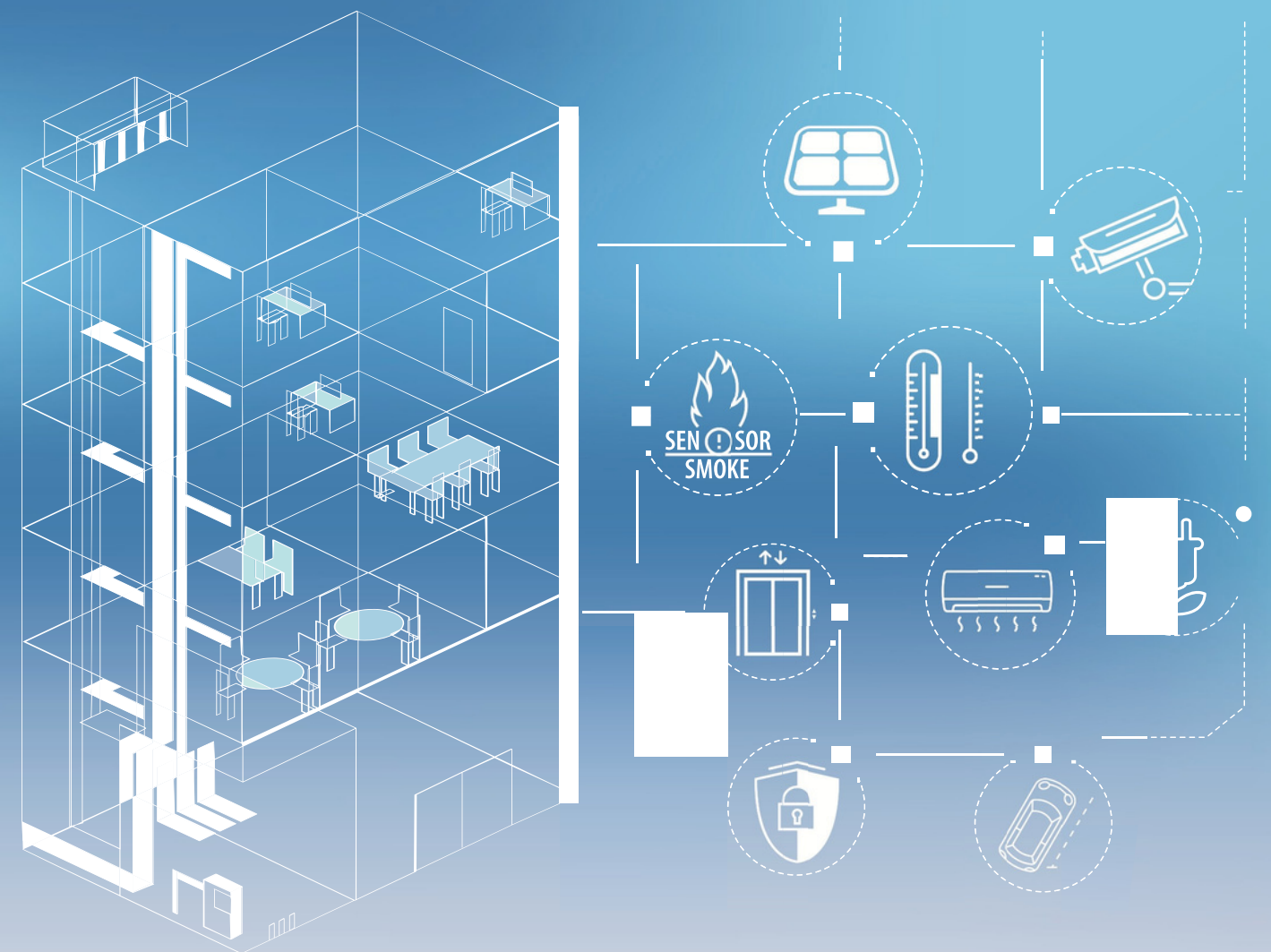
All India Distributors For POLYCAB Wires & Cables

enquiry@teghcables.com



Polycab BMS Cable

The new power partner
to your smart infrastructure!



WIDE RANGE OF CABLES AND WIRES



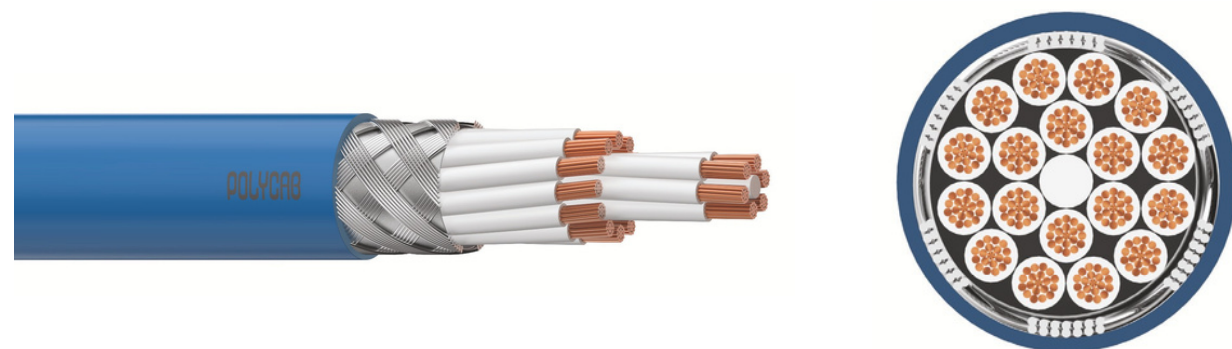
Introduction

Reliable and safe supply of electricity is crucial to lead our life and the growth of any business, community, or country. This supply of electricity can only be managed through high quality, durable, reliable, and efficient wires & cables.

Polycab India Ltd, a Super brand manufacturer of wire & cables having wide range of product practically in every application and voltage grade from 0.6 KV to 220 KV, serving to the world continuously since last 50 years with it's most economic, reliable and efficient product for safe transmission of electricity without much hazards and earned the trust of millions of customers over last 5 decades. It caters to a range of industries viz; Utilities, Power generation, transmission & distribution, oil refineries, OEMS, EPC Contractors, Nuclear power generation and many more with the supply of variety of power, control, instrumentation, communication, Metal clad and BMS Cables.

Polycab, the largest manufacturer of wires & cables, having multilocation activity with high degree of backward integration, a comprehensive product portfolio, strong brand position and robust distribution network riding on key differentiators like product innovation, superior quality, and easy availability.

POLYCAB BUILDING MANAGEMENT SYSTEM (BMS) CABLE



Building management system cables also known as BMS cables, or intelligent building cables, are used to automate building utility systems like air conditioning, ventilation, lighting, hydraulics, etc. These cables power individual equipments as well as the interconnection between various equipments; thus creating an integrated system. EMI suppression filters are attached to the cables to provide noise-free signal in BMS systems.

Polycab BMS cables are the industry's preferred choice for building management systems. Developed as per international standards and manufactured for a wide range of applications, Polycab BMS cables easily meet the industry's demanding requirements

What makes Polycab BMS cables the ultimate choice?

Conductor: Annealed plain flexible copper conductor, manufactured in-house using state-of-the-art machines, ensure high conductivity.

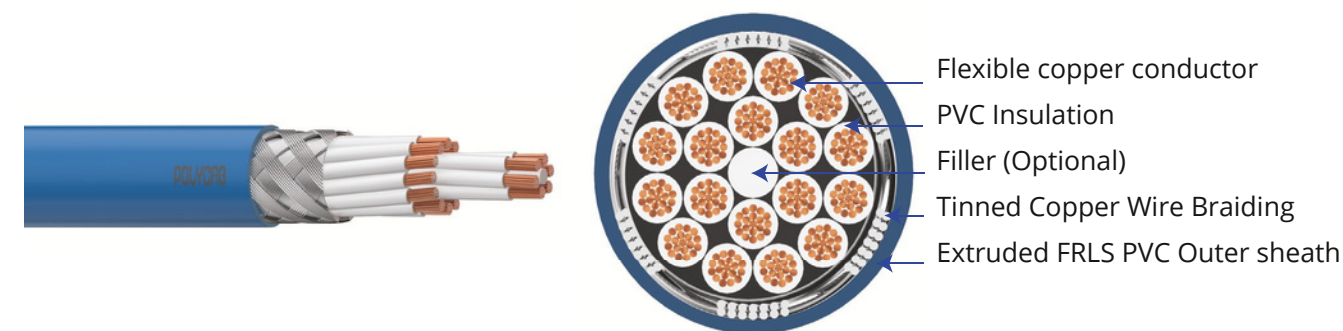
Insulation: PVC insulation compound, developed in-house, has high insulation properties.

Collective screen: The cables are shielded with Aluminium Mylar tape & Drain wire. The Drain wire stays in continuous contact with aluminium side of the tape. Shielding with ATC braiding can also be provided to meet specific requirements.

Outer Sheath: Made from a thermoplastic compound, developed in-house, the sheath emits low smoke and corrosive gases when exposed to fire.

Caution: BMS cables are not designed for use with power supplies and should not be connected to the main power.

POLYCAB BMS 300 MC-C4 BMS Cable PVC Insulated Overall Braided 300V



Application

Polycab BMS 300 MC-C4 cables are designed for transmission of analogue and digital signals in building management system. The cables generally conform to BS EN 50288-7 and are useful for controlling & monitoring of diverse applications inside the building.

Voltage Rating

300 V

Operation Temperature

Max.: PVC 70°C

Construction

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

Core Identification

- 2 Core-Red & Black
- 3 Core-Red, Black & Yellow-green
- 4 Core-Red, Yellow, Blue & Yellow-green
- 5 Core & above -White/Grey core with number printing

Outer sheath colour:

Blue

Note: As per the application/identification requirement, other colours are also available upon request.

Bending Radius

12 x Overall diameter

Standard and References

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 Accreditation



POLYCAB BMS 300 MC-C4
BMS Cable PVC Insulated Overall Braided 300V

Weight & Dimension Data

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

Area of Min. thickness of Nominal thickness of Nominal overall			No.of core	Approx. weight
conductor insulation	outer sheath	Diameter		
sqmm	mmmmmm	kg/km		
0.520.260.834.8437				
0.530.260.845.0945				
0.540.260.865.4953				
0.550.260.875.9363				
0.560.260.896.3972				
0.570.260.896.3978				
0.580.260.927.0990				
0.5100.260.957.94108				
0.5120.260.968.18122				
0.5160.260.999.02153				
0.5180.261.019.48169				
0.5190.261.019.48175				
0.5200.261.039.99186				
0.5240.261.0611.03219				
		0.7520.260.855.2945		
		0.7530.260.865.5756		
		0.7540.260.886.0368		
		0.7550.260.906.5280		
		0.7560.260.927.0593		
0.7570.260.927.05101				
0.7580.260.957.85116				
0.75100.260.988.82141				
0.75120.260.999.11161				
0.75160.261.0310.06203				
0.75180.261.0510.59225				
0.75190.261.0510.59233				
0.75200.261.0711.17247				
0.75240.261.1112.36293				
120.260.865.6653				
130.260.885.9766				
140.260.906.4881				
150.260.927.0396				
160.260.947.61112				
170.260.947.61123				
180.260.978.49141				
1100.261.019.57173				
1120.261.029.88197				



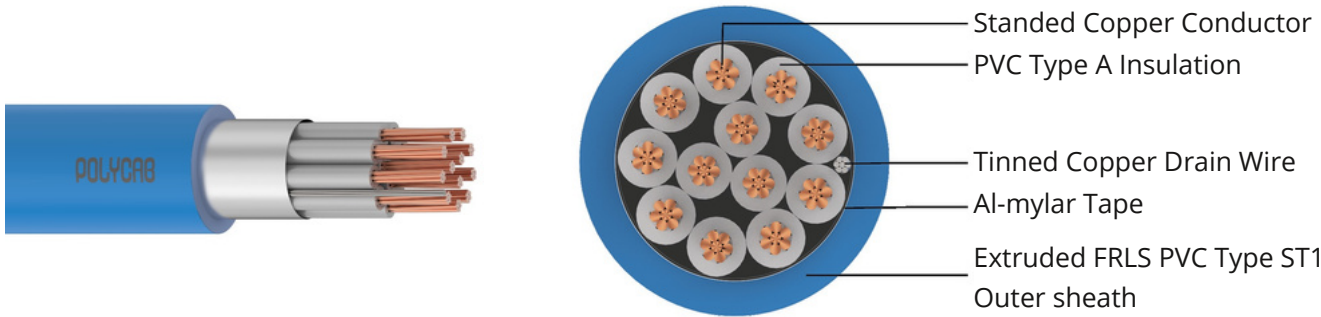
POLYCAB BMS 300 MC-C4
BMS Cable PVC Insulated Overall Braided 300V

No.of core	Area of Min. thickness of Nominal thickness of		Nominal overall	Approx. weight
	conductor insulation	outer sheathDiameter		
	sqmm	mmmmmm		kg/km
1160.261.0610.94				251
1180.261.0811.52				278
1190.261.0811.52				289
1200.261.1112.17				307
1240.261.1513.48				364
1.520.350.906.63				71
1.530.350.927.03				91
1.540.350.947.66				112
1.550.350.968.34				134
1.560.350.999.08				157
1.570.350.999.08				173
1.580.351.0310.18				200
1.5100.351.0811.52				245
1.5120.351.1011.91				282
1.5160.351.1513.23				360
1.5180.351.1713.96				401
1.5190.351.1713.96				417
1.5200.351.2014.77				442
1.5240.351.2616.40				526
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

POLYCAB BMS 300 MC-A7
BMS Cable shielded 300V



Application

Polycab BMS 300 MC-A7 cables generally conforming to EN 50288-7, are designed for transmission of analogue and digital signals in the building management system. The cables are useful for controlling & monitoring of di-verse applications inside the building.

Voltage Rating

300 V

Operation Temperature

Max.: PVC 70°C

Construction

- Flexible (Class 5) Copper conductor as per EN 60228
- Insulated with PVC Type A
- Collective screen Al/PET (Aluminium Polyester tape) with drain wire of tinned Cu
- Sheathed with Extruded PVC FRLS

Core Identification

- 2 Core-Red & Black
- 3 Core-Red, Black & Yellow-green
- 4 Core-Red, Yellow, Blue & Yellow-green
- 5 Core & above -White/Grey core with number printing

Outer sheath colour:

Blue

Note: As per the application/identification requirement, other colours are also available upon request.

Bending Radius

12 x Overall diameter

Standard and References

- 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



POLYCAB BMS 300 MC-A7
BMS Cable shielded 300V

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 sqmm	No.of core	Min. thickness of insulation mm	Nominal thickness of outer sheath mm	Nominal overall Diameter mm	Approx. weight 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	0.88	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
0.75	20	0.26	1.06	11.12	221
0.75	24	0.26	1.10	12.30	234
1	24	0.26	0.86	5.60	278
1	2	0.26	0.87	5.92	50
1	3	0.26	0.89	6.42	63
1	4	0.26	0.89	6.97	77
1	5	0.26	0.91	7.56	91
1	6	0.26	0.93	7.56	106
1	7	0.26	0.93	8.44	116
1	8	0.26	0.96	9.51	133
1	10	0.26	1.00	9.82	163
1	12	0.26	1.01	10.88	187
1	16	0.26	1.05	11.47	238
	18		1.07		265

Our Accreditation



POLYCAB BMS 500 MC-A7
BMS Cable shielded 500V

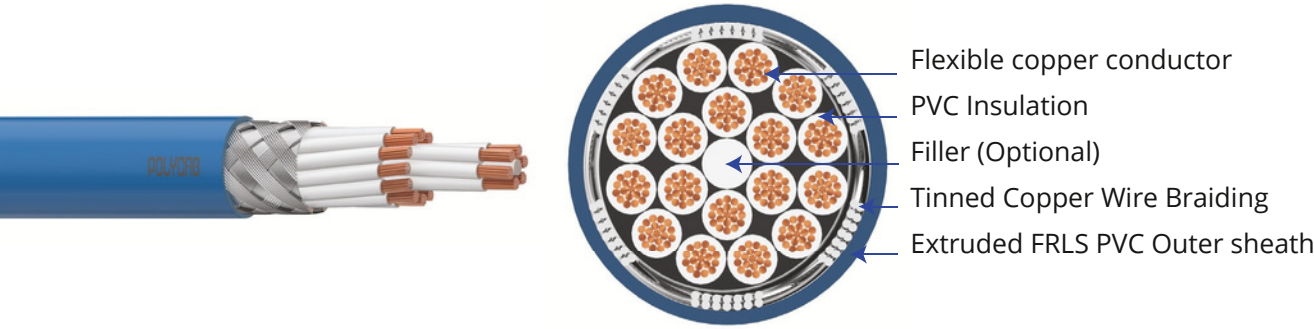
No.of core	Area of Min. thickness of Nominal thickness		Nominal overall	Approx. weight
	conductor	insulationof outer sheathDiameter		
	sqmm	mmmmmm		kg/km
1190.261.0711.47				276
1200.261.1012.11				292
1240.261.1513.42				347
1.520.350.896.58				66
1.530.350.916.97				85
1.540.350.937.60				106
1.550.350.968.29				127
1.560.350.989.02				148
1.570.350.989.02				164
1.580.351.0210.12				189
1.5100.351.0711.46				232
1.5120.351.0911.85				268
1.5160.351.1413.17				344
1.5180.351.1613.90				383
1.5190.351.1613.90				399
1.5200.351.1914.71				423
1.5240.351.2516.35				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



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



Application
Polycab BMS 500 MC-C4 cables generally are designed for transmission of analogue and digital signals in building management system. The cables conform to BS EN 50288-7 and are useful for controlling & monitoring of diverse applications inside the building.

Voltage Rating
500 V

Operation Temperature
Max.: PVC 70°C

- Construction**
- Flexible (Class 5) Copper conductor as per EN 60228
 - Insulated with PVC Type A
 - Tinned copper wire braided
 - Sheathed with Extruded PVC FRLS

Core Identification
2 Core-Red & Black
3 Core-Red, Black & Yellow-green
4 Core-Red, Yellow, Blue & Yellow-green
5 Core & above -White/Grey core with number printing

Outer sheath colour:
Blue

Note: As per the application/identification requirement, other colours are also available upon request.

Bending Radius
12 x Overall diameter

Standard and References
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 Accreditation



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

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 Min. thickness of Nominal thickness of Nominal overall					
conductor insulation	outer sheath	Diameter			No.of core
sqmm	mmmmmm	kg/km			Approx. weight
0.520.440.865.645					
0.530.440.875.955					
0.540.440.896.466					
0.550.440.917.077					
0.560.440.947.689					
0.570.440.947.697					
0.580.440.978.4111					
0.5100.441.019.5135					
0.5120.441.029.8152					
0.5160.441.0610.8191					
0.5180.441.0811.4211					
0.5190.441.0811.4218					
0.5200.441.1012.1231					
0.5240.441.1513.4274					
			0.7520.440.886.154		
			0.7530.440.896.466		
			0.7540.440.917.081		
			0.7550.440.947.696		
0.7560.440.968.2111					
0.7570.440.968.2121					
0.7580.441.009.2139					
0.75100.441.0410.4170					
0.75120.441.0510.7193					
0.75160.441.1011.9244					
0.75180.441.1212.5270					
0.75190.441.1212.5280					
0.75200.441.1513.2297					
0.75240.441.2014.7352					
120.440.896.462					
130.440.916.878					
140.440.937.495					
150.440.958.1113					
160.440.988.8132					
170.440.988.8144					
180.441.029.8166					
1100.441.0711.1203					
1120.441.0811.5232					
1160.441.1312.8294					
1180.441.1513.5327					
1190.441.1513.5339					



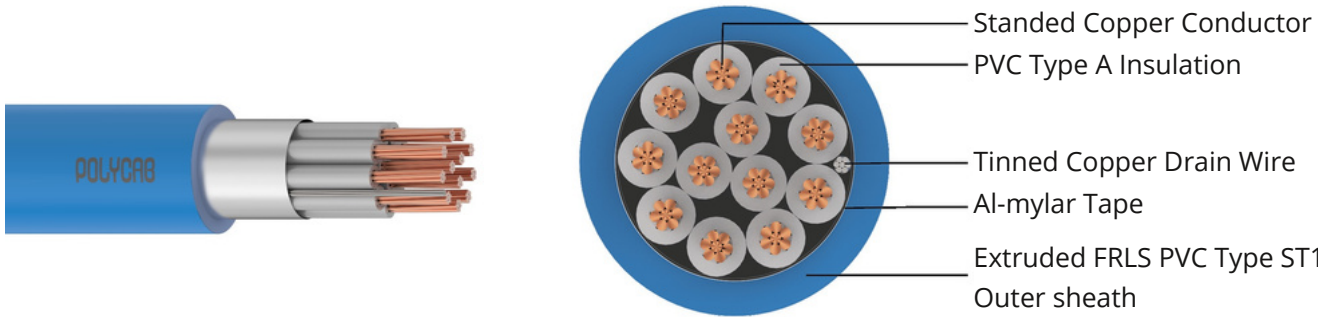
POLYCAB BMS 500 MC-C4
BMS Cable PVC Insulated Overall Braided 500V

No.of core	Area of conductor	Min. thickness of insulation	Nominal thickness of outer sheath	Nominal overall Diameter	Approx. weight
		sqmm	mmmmmm		kg/km
1200.441.1814.2					360
1240.441.2415.8					428
		1.520.440.927.0			76
		1.530.440.937.4			97
		1.540.440.968.1			120
		1.550.440.988.9			144
		1.560.441.019.7			168
		1.570.441.019.7			185
1.580.441.0610.8					214
1.5100.441.1112.3					262
1.5120.441.1312.7					301
1.5160.441.1814.1					385
1.5180.441.2114.9					428
1.5190.441.2114.9					446
1.5200.441.2415.8					473
1.5240.441.3117.6					563
		2.520.530.978.4			110
		2.530.530.998.9			143
		2.540.531.029.8			179
2.550.531.0510.7					215
2.560.531.0911.7					253
2.570.531.0911.7					282
2.580.531.1413.2					325
2.5100.531.2115.0					401
2.5120.531.2315.6					464
2.5160.531.3017.4					598
2.5180.531.3418.4					667
2.5190.531.3418.4					695
2.5200.531.3819.5					737
2.5240.531.4621.7					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

POLYCAB BMS 500 MC-A7
BMS Cable shielded 500V



Application

Polycab BMS 500 MC-A7 cables generally are designed for transmission of analogue and digital signals in building management system. The cables conform to BS EN 50288-7 and are useful for controlling & monitoring of diverse applications inside the building.

Voltage Rating

500 V

Operation Temperature

Max.: PVC 70°C

Construction

- Flexible (Class 5) Copper conductor as per EN 60228
- Insulated with PVC Type A
- Collective screen Al/PET (Aluminium Polyester tape) with drain wire of tinned Cu
- Sheathed with Extruded PVC FRLS

Core Identification

- 2 Core-Red & Black
- 3 Core-Red, Black & Yellow-green
- 4 Core-Red, Yellow, Blue & Yellow-green
- 5 Core & above -White/Grey core with number printing

Outer sheath colour:

Blue

Note: As per the application/identification requirement, other colours are also available upon request.

Bending Radius

12 x Overall diameter

Standard and References

- 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



POLYCAB BMS 500 MC-A7
BMS Cable shielded 500V



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 sqmm	No.of core	Min. thickness of insulation mm	Nominal thickness of outer sheath mm	Nominal overall Diameter mm	Approx. weight 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
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



POLYCAB BMS 500 MC-A7
BMS Cable shielded 500V

Notes



No.of core	Area of conductor	Min. thickness of insulation	Nominal thickness of outer sheath	Nominal overall Diameter	Approx. weight
	sqmm	mm	mm	mm	kg/km
1200.441.1714.18					342
1240.441.2315.75					406
1.520.440.916.97					71
1.530.440.927.39					91
1.540.440.958.07					113
1.550.440.978.81					135
1.560.441.009.60					158
1.570.441.009.60					175
1.580.441.0510.79					201
1.5100.441.1012.24					248
1.5120.441.1212.66					286
1.5160.441.1714.08					367
1.5180.441.2014.88					409
1.5190.441.2014.88					426
1.5200.441.2315.75					452
1.5240.441.3017.51					539
2.520.530.968.34					102
2.530.530.988.87					134
2.540.531.019.73					168
2.550.531.0410.66					203
2.560.531.0811.66					240
2.570.531.0811.66					268
2.580.531.1413.15					309
2.5100.531.2014.98					382
2.5120.531.2215.51					443
2.5160.531.2917.30					574
2.5180.531.3318.30					641
2.5190.531.3318.30					669
2.5200.531.3719.40					709
2.5240.531.4521.62					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