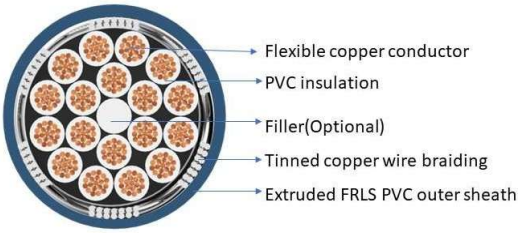
BMS CABLE · BMS 500 MC-C4 · 500 V

INDOCABLES BMS 500 MC-C4

BMS CABLE, PVC INSULATED, OVERALL TINNED COPPER BRAIDED — EN 50288-7

VOLTAGE RATING	STANDARD	CONDUCTOR	SCREEN	BENDING RADIUS
500 V	EN 50288-7	Flex. Class 5	TC Braid	12 × OD



Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES 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. INDOCABLES BMS 500 MC-C4 cables are used for diverse Applications for control and monitoring of service provided within the building.

CONSTRUCTION

01 Flexible (Class 5) Copper conductor as per EN 60228

02 Insulated with PVC Type A as per EN 50288-7

03 Tinned copper wire braided.

04 Sheathed with Extruded PVC FRLS as per EN 50290-2-22

CHARACTERISTICS	
Voltage Rating	500 V
Operation Temperature	Max.: PVC 70°C
Bending Radius	12 x Overall diameter

OUTSTANDING FEATURES

- FLAME RETARDANT
- LOW SMOKE EMISSION
- HIGH LIFE
- FLEXIBLE

CORE IDENTIFICATION

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

COMPLIANCE

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

STANDARD FOLLOWS

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

NOTES

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

ORDERING & ITEM CODE

NOT REGISTERED

The Indo Cables item master carries no BMS line — no line code, no items. Codes for this product cannot be looked up or derived until the Item Master Steward assigns a line code. Suggested pattern, following the instrumentation structure: IC–<LINE>-<CORES>-<SIZE>–FC-Y–<DESIG>–0500-EN50288P7–<SCREEN>. Quote by description until registered.

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 CONDUCTOR	NO. OF CORE	MIN. THICKNESS OF INSULATION	NOMINAL THICKNESS OF OUTER SHEATH	NOMINAL OVERALL DIAMETER	APPROX. WEIGHT
Sq mm	–	mm	mm	mm	kg/km
0.5	2	0.26	0.83	4.84	37
0.5	3	0.26	0.84	5.09	45
0.5	4	0.26	0.86	5.49	53
0.5	5	0.26	0.87	5.93	63
0.5	6	0.26	0.89	6.39	72
0.5	7	0.26	0.89	6.39	78
0.5	8	0.26	0.92	7.09	90
0.5	10	0.26	0.95	7.94	108
0.5	12	0.26	0.96	8.18	122
0.5	16	0.26	0.99	9.02	153
0.5	18	0.26	1.01	9.48	169

0.5	19	0.26	1.01	9.48	175
0.5	20	0.26	1.03	9.99	186
0.5	24	0.26	1.06	11.03	219
0.75	2	0.26	0.85	5.29	45
0.75	3	0.26	0.86	5.57	56
0.75	4	0.26	0.88	6.03	68
0.75	5	0.26	0.90	6.52	80
0.75	6	0.26	0.92	7.05	93
0.75	7	0.26	0.92	7.05	101
0.75	8	0.26	0.95	7.85	116
0.75	10	0.26	0.98	8.82	141
0.75	12	0.26	0.99	9.11	161
0.75	16	0.26	1.03	10.06	203
0.75	18	0.26	1.05	10.59	225
0.75	19	0.26	1.05	10.59	233
0.75	20	0.26	1.07	11.17	247
0.75	24	0.26	1.11	12.36	293
1	2	0.26	0.86	5.66	53
1	3	0.26	0.88	5.97	66
1	4	0.26	0.90	6.48	81
1	5	0.26	0.92	7.03	96
1	6	0.26	0.94	7.61	112
1	7	0.26	0.94	7.61	123
1	8	0.26	0.97	8.49	141
1	10	0.26	1.01	9.57	173
1	12	0.26	1.02	9.88	197
1	16	0.26	1.06	10.94	251
1	18	0.26	1.08	11.52	278
1	19	0.26	1.08	11.52	289
1	20	0.26	1.11	12.17	307
1	24	0.26	1.15	13.48	364
1.5	2	0.35	0.90	6.63	71
1.5	3	0.35	0.92	7.03	91
1.5	4	0.35	0.94	7.66	112
1.5	5	0.35	0.96	8.34	134
1.5	6	0.35	0.99	9.08	157
1.5	7	0.35	0.99	9.08	173
1.5	8	0.35	1.03	10.18	200
1.5	10	0.35	1.08	11.52	245
1.5	12	0.35	1.10	11.91	282
1.5	16	0.35	1.15	13.23	360
1.5	18	0.35	1.17	13.96	401

1.5	19	0.35	1.17	13.96	417
1.5	20	0.35	1.20	14.77	442
1.5	24	0.35	1.26	16.40	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.

FLAGGED

The supplied source datasheet is titled BMS 300 MC-C4 · 300 V (Doc 00486, Rev 00, 27-12-2023) and this table is headed 300 Volts — while this sheet's product name and the earlier IC-05 document say BMS 500 / 500 V. Values are reproduced exactly as written from the source. Confirm the correct voltage designation before publishing.

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)
Sq mm	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