

BCC BMS-Tec™ - Cables for EIA RS-232 Applications

1 – 2 – 3 – 4 – 5 - 6 – 7 or 8 p airs

24AWG (7 x 32), Flexible Tinned Copper, Overall Screen, PE Sheath

BCC Part No: C1451 – C1452 – C1453 – C1454 – C1455 – C1456 – C1457 – C1458



BRITISH CABLES COMPANY

Applications

Building Management Systems (BMS),
Access Control, Instrumentation

Sector

BCC BMS-TEC™

Standard References

ANSI/TIA/EIA-232-F
RoHS directives (BS)EN 50290

Design

1. Conductor

N x 2 x Tinned Copper wire,
24AWG flexible (7x32)

2. Insulation

Polyvinyl Chloride (PVC)
Pair 1: Black & Red
Pair 2: Black & White
Pair 3: Black & Green
Pair 4: Black & Blue
Pair 5: Black & Yellow
Pair 6: Black & Brown
Pair 7: Black & Orange
Pair 8: Red & White

3. Drain Wire

24 AWG (7 x 32) Tinned Copper

4. Screen

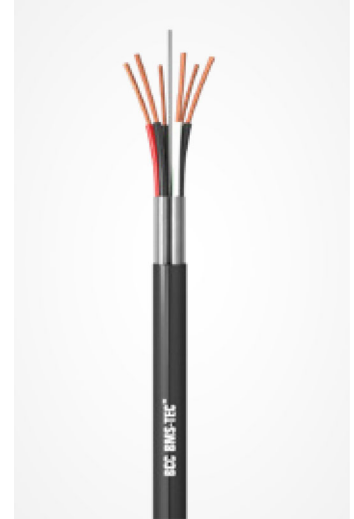
Aluminium/Polyester
100% Coverage

5. Sheath Material

Polyethylene (PE)

Standard Put Up Length

305 metres



Physical Characteristics

BCC Part Number	Unit	C1451	C1452	C1453	C1454	C1455	C1456	C1457	C1458
Number of pairs		1	2	3	4	5	6	7	8
Nom. Diameter Conductor	mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Nom. Radial Thickness Insulation	mm	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Nom. Radial Thickness Sheath	mm	0.8	0.8	0.8	0.6	0.6	0.4	0.4	0.4
Nom. Overall Diameter	mm	4.0	5.6	5.9	6.7	7.3	7.4	7.5	8.3

Electrical Characteristics

BCC Part Number	Unit	C1451	C1452	C1453	C1454	C1455	C1456	C1457	C1458
Number of pairs		1	2	3	4	5	6	7	8
Max. DC Resistance Conductor	Ω/km	88	88	88	88	88	88	88	88
Max. DC Resistance Screen	Ω/km	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
Nominal Impedance	Ω	75	75	75	75	75	75	75	75
Capacitance core to core	pF/m	135	76	76	80	80	80	80	80
Capacitance core to other cores.+screen	pF/m	275	122	122	130	130	130	130	130
Nominal Inductance	μH/m	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.5
Nominal Velocity of Propagation	%	60	60	60	60	60	60	60	60
Max. Recommen. Current @ 25°C	Amps	1.76	1.76	1.76	1.5	1.5	1.1	1.1	1.1
Max. Operating Voltage	Vrms	300	300	300	300	300	300	300	300

Miscellaneous

BCC Part Number	Unit	C1451	C1452	C1453	C1454	C1455	C1456	C1457	C1458
Number of pairs		1	2	3	4	5	6	7	8
Max. Recommend. Pulling Tension	N	45	90	135	180	225	270	315	360
Min. Bend Radius (install)	mm	40	56	59	67	73	74	75	83
Nominal Cable Weight	kg/km	18	24.5	31	39	47	55	59	67
Operating Temperature	°C	-25 / +75							



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