Cables for EIA RS-232 Applications

1 – 2 – 3 – 4 – 5 - 6 – 7 or 8 pairs

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

BT Cables Part No: C1181 – C1182 – C1183 – C1184 – C1185 – C1186 – C1187 – C1188

Applications

Building Management Systems (BMS), Access Control, Instrumentation

Sector - BT BMS-TEC™

Computer Cables

Standard References

IEC 60332-1
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
Polyvinyl Chloride (PVC)

Standard Put Up Length
305 metres

Physical Characteristics

BTCL Part Number	Unit	C1181	C1182	C1183	C1184	C1185	C1186	C1187	C1188
No 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

BTCL Part Number	Unit	C1181	C1182	C1183	C1184	C1185	C1186	C1187	C1188
No 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

BTCL Part Number	Unit	C1181	C1182	C1183	C1184	C1185	C1186	C1187	C1188
No 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	28	39	48	57	65	73	85
Operating Temperature	°C	-25 / +75							

BT Cables Limited, Delaunays Road, Blackley, Manchester, M9 8FP, United Kingdom
Tele: +44 (0) 161 740 9151 Fax: +44 (0) 161 795 8393 Web:www.btcables.com Email: info@bt.com