

Cables for EIA RS-232 Applications, 24AWG, Overall Screen, HFFR Sheath

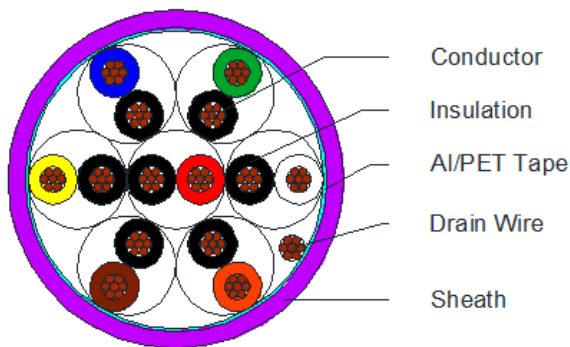


C1640, C1641, C1642, C1643, C1644, C1645, C1646, C1647

Applications

Building Management Systems (BMS), Access Control, Instrumentation

Cross Section Drawing



Design

Unit	Properties
Conductor	Flexible Tinned Copper wire
Insulation	Halogen Free Flame Retardant (HFFR) 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
Drain Wire	Tinned Copper wire
Screen	Aluminium/Polyester tape
Sheath Material	Halogen Free Flame Retardant (HFFR) Standard Colour: Purple
Standard Put Up Length	305 metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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C1640, C1641, C1642, C1643, C1644, C1645, C1646, C1647

Physical Characteristics

Part Number	C1640	C1641	C1642	C1643	C1644	C1645	C1646	C1647
No of pairs	1	2	3	4	5	6	7	8
Nom. Conductor Configuration (AWG)	24(7x32)							
Nom. Radial Thickness Insulation (mm)	0.25							
Drain Wire size (AWG)	24(7x32)							
Screen Coverage (%)	115							
Nom. Radial Thickness Sheath (mm)	0.8							
Nom. Overall Diameter (mm)	4.0	5.6	5.9	6.7	7.3	7.4	7.5	8.3
Operating Temperature (°C)	-25 / +75							
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

Electrical Characteristics

Part Number	C1640	C1641	C1642	C1643	C1644	C1645	C1646	C1647
No of pairs	1	2	3	4	5	6	7	8
Max. DC Resistance Conductor (Ω /km)	88							
Max. DC Resistance Screen (Ω /km)	78.4							
Capacitance core to core (pF/m)	131	86	80	78	75	75	75	75
Capacitance core to other cores.+screen (pF/m)	236	150	138	134	130	128	125	125
Nominal Inductance (μ H/m)	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.5
Nominal Velocity of Propagation (%)	53							
Max. Recommend. 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							

Reference Standards

(BS)EN 50290-2	IEC 60754-1&-2
IEC 60228	IEC 61034
IEC 60332-3-24	RoHS directives