

# Low Capacitance RS-485 Computer Cables

## 18AWG, Overall Screen, SWA Armoured, HFFR/LSZH Sheath

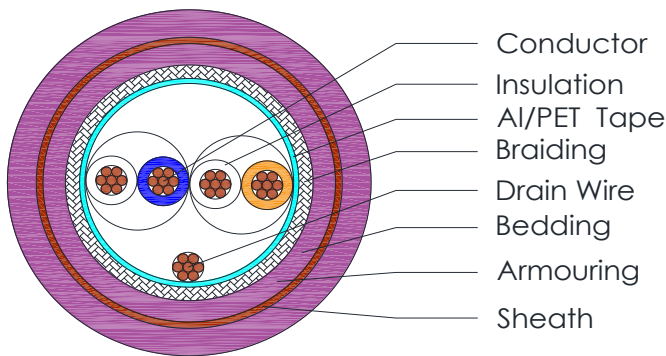


C5995, C5996, C5997, C5998, C5999

### Applications

Shipboard, harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Tinned Copper wire, flexible
Insulation	Foam PE Pair 1: WHITE/Blue + BLUE/White Pair 2: WHITE/Orange + ORANGE/White Pair 3: WHITE/Green + GREEN/White Pair 4: WHITE/Brown + BROWN/White Color code for C5748 Pair 1: WHITE/Orange + ORANGE/White Core 1: BLUE/White
Cabling	N Pairs twisted together
Screen	Aluminium/Polyester 115% Coverage
Drain Wire	Tinned Copper wire
Braid	Tinned Copper wire
Bedding	Halogen Free Flame Retardant (HFFR/LSZH)
Armour	Galvanized Steel Wire
Sheath Material	Halogen Free Flame Retardant (HFFR/LSZH) Standard colour: Purple
Standard Put Up Length	305 or 500 meters

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

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## 18AWG, Overall Screen, SWA Armoured, HFFR/LSZH Sheath



C5995, C5996, C5997, C5998, C5999

### Physical Characteristics

Part Number	C5995	C5996	C5997	C5998	C5999
Number of pairs	1	1.5	2	3	4
Conductor Gauge (AWG)	18				
Conductor configuration (AWG)	7 x 26				
Nom. Radial Thickness Insulation (mm)	1.0	1.0	0.95	0.95	0.95
Drain Wire Size (AWG)	24(7 x 32)				
Coverage braid (%)	65				
Nom. Radial Thickness Bedding(mm)	0.8				
Nom. Bedding Diameter (mm)	9.0	10.5	11.5	13.0	14.6
Nom. Steel Wire Diameter (mm)	0.90				
Nom. Radial Thickness Sheath (mm)	0.8				
Nom. Overall Diameter (mm)	12.4	13.9	14.9	16.4	18.0
Operating Temperature (°C)	-25 / +75				
Max. Pulling Tension (N)	350	400	460	520	585
Min. Bend Radius (install) (mm)	90	105	115	130	146
Nominal Cable Weight (kg/km)	81	104	128	169	209

### Electrical Characteristics

Part Number	C5995	C5996	C5997	C5998	C5999
No of pairs	1	1.5	2	3	4
Max. DC Resistance Conductor ( $\Omega$ /km)	22.7				
Max. DC Resistance Screen ( $\Omega$ /km)	20				
Nominal Impedance ( $\Omega$ )	120				
Capacitance core to core (pF/m)	32	32	35	38	38
Capacitance core to rest (pF/m)	70	70	66	69	69
Nom. Attenuation at 1 MHz (dB/100m)	1.30				
Max. Recom. Current @ 25°C (Amps)	5	5	4	3.5	3.5
Max. Operating Voltage (Vrms)	300				

### Reference Standards

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