

Instrumentation Cable – 3 to 20Cores

1 4AWG, Tray Cable, 600V

Screened, PVC Sheath

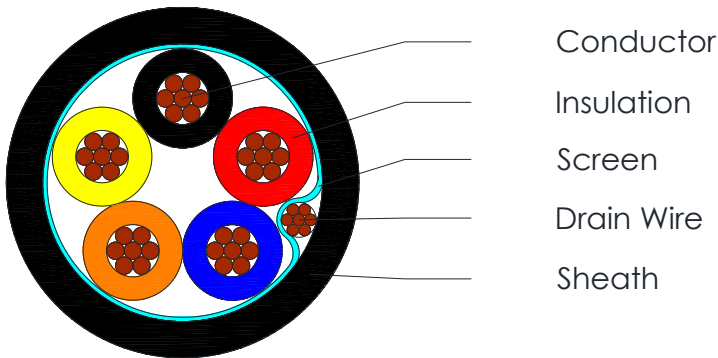


C3876, C3877, C3878, C3879, C3880, C3881, C3882, C3883, C3884, C3885

Applications

Tray cable (TC) is designed for installation indoors or outdoors, aerially, in conduits, ducts and cable trays in circuits not exceeding 600 volts. Tray Cable is often used in industrial control systems, distribution systems, interconnection of protective and signaling devices and for general use in manufacturing.

Cross Section Drawing



Design

Unit	Properties
Conductor	Flexible Bare Copper wire
Insulation	Polyvinyl Chloride/Nylon
Screen	Al/PET Tape
Drain Wire	Tinned copper wire
Rip cord	Nylon yarn
Sheath Material	UV Resistant Polyvinyl Chloride (PVC) Standard Colour: Black
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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Physical Characteristics

Part Number	C3876	C3877	C3878	C3879	C3880	C3881	C3882	C3883	C3884	C3885
No of Cores	3	4	5	6	7	8	10	12	16	20
Conductor Configuration (AWG)	14(7x22)									
Drain Wire Configuration (AWG)	24(7x32)									
Nom. Radial Thickness Sheath (mm)	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6
Nom. Overall Diameter (mm)	8.6	9.4	10.1	10.7	11.1	12.0	15.0	15.2	16.5	18.3
Operating Temperature (°C)	-30 / +90									
Max. Recommend. Pulling Tension (N)	430	715	968	1154	1554	1690	1940	2909	3104	3881
Min. Bend Radius (install) (mm)	86	94	101	107	111	120	150	152	165	183

Electrical Characteristics

Part Number	C3876	C3877	C3878	C3879	C3880	C3881	C3882	C3883	C3884	C3885
No of Cores	3	4	5	6	7	8	10	12	16	20
Max. DC Resistance Conductor (Ω/km)	8.53									
Max. Operating Voltage (Vrms)	600									
Max. Recommended Current @25°C (A)	20	20	20	20	15	12.5	12	10.5	10.5	7.5

Colour Schedule

Cores	Color	Cores	Color	Cores	Color	Cores	Color
1	Black	14	Orange/Red	27	Black/Yellow	40	Orange
2	Red	15	Yellow/Red	28	Red/Yellow	41	Yellow
3	Blue	16	Brown/Red	29	Blue/Yellow	42	Brown
4	Orange	17	Black/Blue	30	Orange/Yellow	43	Red/Black
5	Yellow	18	Red/Blue	31	Brown/Yellow	44	Blue/Black
6	Brown	19	Orange/Blue	32	Black/Brown	45	Orange/Black
7	Red/Black	20	Yellow/Blue	33	Red/Brown	46	Yellow/Black
8	Blue/Black	21	Brown/Blue	34	Blue/Brown	47	Brown/Black
9	Orange/Black	22	Black/Orange	35	Orange/Brown	48	Black/Red
10	Yellow/Black	23	Red/Orange	36	Yellow/Brown	49	Blue/Red
11	Brown/Black	24	Blue/Orange	37	Black	50	Orange/Red
12	Black/Red	25	Yellow/Orange	38	Red		
13	Blue/Red	26	Brown/Orange	39	Blue		

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Reference Standards

IEC 60332-1
IEC 60228
BS/EN 50290
RoHS directives