

RoHS
Compliant



Application

These Multi-Core flexible cables are designed for high density wiring between components within instruments and electronic equipment. They are extensively used in aircraft, process control systems, computers, data processors, military vehicles and military equipment.

Standards

Defence Standard 61-12 Part 4

Characteristics

Voltage Rating

Cores with 7/0.1 mm conductors:

250V r.m.s. at frequencies up to 1.6 kHz

Cores with 7/0.2 mm conductors:

440V r.m.s. at frequencies up to 1.6 kHz

Maximum Resistance of Conductor at 20°C

7/0.1 mm: 384Ω/km

7/0.2 mm: 92Ω/km

Temperature Rating

Fixed: -30°C to + 70°C

Flexed: -15°C to +70°C

Minimum Bending Radius

Fixed: 7.5 x overall diameter

Construction

Conductor

Stranded tinned copper conductor; 0.055mm² (7/0.1mm);

0.22mm² (7/0.2mm)

Insulation

PVC (Polyvinyl Chloride)

Braid

Material	Tinned Copper braid		
Nom. O.D.	0.1mm×16mm×5mm	Up	+0.008mm
		Down	-0.008mm

Screen

TCWB (Tinned Copper Wire Braid)

Sheath

PVC (Polyvinyl Chloride)Core Identification

Sheath Colour

Black, Grey

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Details of Cores

Cores with 7/0.1mm Conductors	
Radial Thickness of Insulation	Nominal 0.2mm
	Minimum 0.15mm
Overall Diameter of Unscreened Core	Minimum 0.65mm
	Maximum 0.75mm
Overall Diameter of Screened Core	Minimum 0.95mm
	Maximum 1.15mm
Insulation Resistance at 20°C for 1000m	Minimum 140MΩ
Cores with 7/0.2mm Conductors	
Radial Thickness of Insulation	Nominal 0.3mm
	Minimum 0.25mm
Overall Diameter of Unscreened Core	Minimum 1.15mm
	Maximum 1.25mm
Overall Diameter of Screened Core	Minimum 1.55mm
	Maximum 1.75mm

Specifications

Circular Conductor, PVC Insulated, PVC Sheathed, Def Stan 61/12 Part 4

Part Number	Colour	Length (m)	Cable Identification Code	No. of Cores	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
MP002312	Black	25	7-1-2A	2	0.35	2.3	5.85
MP002313		100					
MP002324		25	7-2-2A	2	0.4	3.4	12.81
MP002325		100					
MP002314		25	7-1-3A	3	0.4	2.4	7.03
MP002315		100					
MP002326		25	7-2-3A	3	0.4	3.5	15.77
MP002327		100					
MP002316		25	7-1-4A	4	0.4	2.6	8.46
MP002317		100					
MP002328		25	7-2-4A	4	0.4	3.8	19.08
MP002329		100					
MP002318		25	7-1-6A	6	0.45	3.1	12.26
MP002319		100					
MP002330		25	7-2-6A	6	0.45	4.6	29.34
MP002331		100					
MP002332		25	7-2-8A	8	0.55	5.4	38.34
MP002333		100					

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Part Number	Colour	Length (m)	Cable Identification Code	No. of Cores	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
MP002320	Black	25	7-1-9A	9	0.45	3.5	15.74
MP002321		100					
MP002322		25	7-1-12A	12	0.45	3.9	19.25
MP002323		100					
MP002334		25	7-2-12A	12	0.55	6	52.22
MP002335		100					
MP002336		25	7-2-18A	18	0.65	7.5	80
MP002337		100					
MP002338		25	7-2-20A	20	0.8	8.2	92
MP002339		100					
MP002340		25	7-2-25A	25	0.8	8.7	103.22
MP002341		100					

Circular Conductor, PVC Insulated, Collectively Screened Cores, PVC Sheathed, Def Stan 61/12 Part 4

Part Number	Colour	Length (m)	Cable Identification Code	No. of Cores	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
MP002342	Black	25	7-1-2C	2	0.4	2.8	10.67
MP002343		100					
MP002358		25	7-2-2C	2	0.37	3.4	19.6
MP002359		100					
MP002344		25	7-1-3C	3	0.45	3	12.81
MP002345		100					
MP002360		25	7-2-3C	3	0.45	4.1	23.89
MP002361		100					
MP002346		25	7-1-4C	4	0.45	3.2	14.67
MP002347		100					
MP002362		25	7-2-4C	4	0.45	4.4	28.84
MP002363		100					
MP002364		500					
MP002348		25	7-1-6C	6	0.45	3.6	20.29
MP002349		100					
MP002365		25	7-2-6C	6	0.6	5.6	43.25
MP002366		100					
MP002367		25	7-2-8C	8	0.6	6.1	51
MP002368		100					
MP002350		25	7-1-9C	9	0.45	4	22.8
MP002351		100					

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Part Number	Colour	Length (m)	Cable Identification Code	No. of Cores	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
MP002369	Black	25	7-2-10C	10	0.6	6.4	58.7
MP002370		100					
MP002352		25	7-1-12C	12	0.5	4.4	27.57
MP002353		100					
MP002371		25	7-2-12C	12	0.6	6.9	67.63
MP002372		100					
MP002354		25	7-1-15C	15	0.55	5	33.75
MP002355		100					
MP002373		25	7-2-15C	15	0.75	7.7	83.59
MP002374		100					
MP002375		25	7-2-18C	18	0.8	8.3	99.5
MP002376		100					
MP002377		25	7-2-20C	20	1	8.9	111.29
MP002378		100					
MP002356		25	7-1-25C	25	0.55	6.3	48.89
MP002357		100					
MP002379		25	7-2-25C	25	1	9.5	128.91
MP002380		100					
MP002288	Grey	25	7-1-4C	4	0.45	3.2	14.67
MP002289		100					
MP002295		25	7-2-4C	4	0.45	4.4	28.84
MP002296		100					
MP002290		25	7-1-6C	6	0.45	3.6	20.29
MP002291		100					
MP002297		25	7-2-8C	8	0.6	6.1	51
MP002298		100					
MP002292		25	7-1-9C	9	0.45	4	22.8
MP002293		100					
MP002299		25	7-2-12C	12	0.6	6.9	67.63
MP002300		100					
MP002294		25	7-1-15C	15	0.55	5	33.75
MP002301		25	7-2-20C	20	1	8.9	111.29
MP002302		100					
MP002303		25	7-2-36C	36	1	10.8	172.73
MP005989	Black	100					

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Core Identification

No. of Cores	Core Identification	No. of Cores	Core Identification	No. of Cores	Core Identification
1	Red	13	Red/Blue	25	Yellow/Green
2	Blue	14	Green/Red	26	White/Green
3	Green	15	Yellow/Red	27	Green/Black
4	Yellow	16	White/Red	28	Orange/Green
5	White	17	Red/Black	29	Grey/Green
6	Black	18	Red/Brown	30	Yellow/Brown
7	Brown	19	Yellow/Blue	31	White/Brown
8	Violet	20	White/Blue	32	Brown/Black
9	Orange	21	Blue/Black	33	Grey/Brown
10	Pink	22	Orange/Blue	34	Yellow/Violet
11	Turquoise	23	Green/Blue	35	Violet/Black
12	Grey	24	Grey/Blue	36	White/Violet

Note:

Base colours are indicated by capital letters

25 core cables use core numbers 1-22, 25, 26 & 28

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