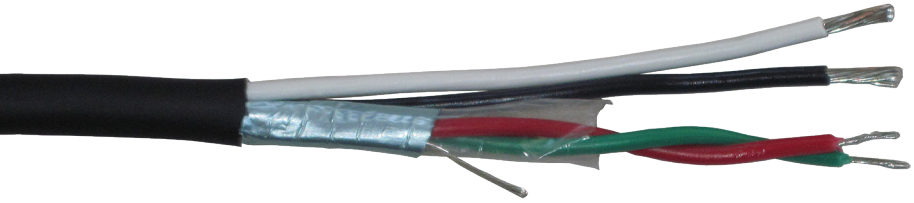
DATAPLEX®

Portable DMX and PowerData Cables

High quality, economical data cables designed for entertainment industry applications. Specifications ETL verified for DMX data transmission.

WDP222T
1-pair DMX

WDP224T
2-pair DMX



WDPCCT
DMX and Low Voltage Power

- Flexible construction
- Durable, flame retardant, UV and fungus resistant matte black PVC jacket
- Foamed Polyethylene insulation for optimum data transmission
- 22AWG twisted data pair, tinned copper
- 14AWG power pair, tinned copper (WDPCCT)
- 22AWG drain wire, tinned copper
- Aluminum/mylar shield on data pair, 100% coverage
- Fully tested

Worldwide Exclusive Distribution

RoHS Compliant

Los Angeles +1 818.899.8818 | London +44 (0)20.8574.9700 | New York +1 201.896.8600 | Toronto +1 519.538.0888 | Beijing +86 10.8492.1587 | Riga +371 6389 8886

www.tmb.com

sales@tmb.com

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Specifications are subject to change without notice. This information supersedes all previously supplied information.

DMX Cable Specifications

		WDP222T	WDP224T
Conductors	Material	22 AWG [0.34 mm²] tinned copper stranded 16/0.2mm	
	Copper Resistance	34.9 Ohm / km Nom.	34.9 Ohm / km Nom.
Insulation	Material	Foamed polyethylene, color coded pairs Red/Blue	Foamed polyethylene, color coded pairs Red/Blue, White/ Green
	Wall Thickness	0.415 mm [0.016”]	0.415 mm [0.016”]
	Overall Diameter	1.8 mm [0.0702”]	1.8 mm [0.0702”]
	Tensile Strength 25mm/min.	11mpa IEC811-1-1	11mpa IEC811-1-1
	Elongation 25mm/ min.	500% IEC811-1-1	500% IEC811-1-1
	Dielectric Constant [1mHz]	2.31 IEC250	2.31 IEC250
	Dissipation Factor [1mHz]	0.0005 IEC250	0.0005 IEC250
	Working Voltage	30	30
	Test Voltage	500	500
Assembly		2 cores [1 twisted pair] cabled with cotton fillers Overall polyester film wrap	4 cores [2 twisted pairs] cabled with cotton fillers Overall polyester film wrap
Shield		Aluminum/mylar foil lapped, 100% coverage	
Drain		16/0.2mm [22AWG] stranded tinned copper	
Jacket	Material	Soft Polyvinylchloride, matte black [RAL 9005], pressure extruded, UV and fungus resistant	
	Wall Thickness	0.90 mm +/- 0.05 mm [0.035”+/-0.002”]	1.30 mm +/- 0.05 mm [0.0507” +/- 0.002”]
	Tensile Strength	11.7 n/sqmm Nom. @ break	
	Elongation	320% Nom. @ break	
	Specific Gravity	1.35 +/- 0.04 g/cc	
	Shore ‘A’ Hardness	61 @ 15 seconds	
	Thermal Stability	60 min. @ 200° C	
	Oxygen Index	23%	
Physical	Overall Diameter	5.2 mm +/- 0.3 mm [0.203” +/-0.0118”]	8.3 mm +/- 0.3mm [0.324” +/-0.0118”]
	Weight	36 kg/km [24.2 lb/1000’] Approx.	84 kg/km [56.5 lb/1000’] Approx.
	Temperature	-40° C to +80° C	-40° C to +80° C
Electrical	Characteristic Impedance	76.3 Ohm @ 250 mHz	99.4 Ohm @ 250 mHz
	DC Resistance	1.0758 Ohm / 100m	1.0863 Ohm / 100m
	Attenuation	- 35.1 db Near End	8.0 db Near End
	Mutual Capacitance	57.7 pF Conductor to Shield	38.0 pF Conductor to Shield
Standards		CE directive 72/23 EEC, IEC332 Part 1	

PowerData Cable Specifications

		WDPCCT	
		Data Pair	Power Pair
Conductors		22 AWG [0.34 mm²] tinned copper stranded 19/0.16mm	14AWG [2.5 mm²] tinned copper stranded 19/0.36mm
Insulation	Material	PE compound	FR−PE compound
	Overall Diameter	2.3 mm nom.	2.3 mm nom.
	Color Code	Green / Red	Black / White
Shield		Aluminum foil, metal face in, 100% coverage.	None
Drain		16/0.2mm [22AWG] stranded tinned copper	None
Jacket	Material	FR−PVC, UV and fungus resistant	
	Color	Black	
	Wall Thickness	0.8 mm nom.	
	Marking	DATAPLEX WDPCCT LV NODE CABLE VW-1 CE xxxxx METER **Lot code**	
Physical	Overall Diameter	7.5 mm +/- 0.5 mm [0.3” +/- 0.0196”]	
	Weight	85 Kg/Km nom.	
	Bend Radius	72 mm min.	
	Temperature	-20° C to +70° C	
	Flame Test	UL 1581 VW−1	
Electrical	DC Loop Resistance	110.0 Ω/Km max. @ 20° C	23.0 Ω/Km max. @ 20° C
	Capacitance	40 pF/m nom.	
	Impedance	120 Ω nom. @ 1 MHz.	
	Attenuation	0.57 dB/100m @ 100 KHz max.	
		0.83 dB/100m @ 200 KHz max.	
		1.30 dB/100m @ 500 KHz max.	
		2.20 dB/100m @ 1 Mhz max.	
	Voltage Rate		300 Vrms.

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