

DATA**P**LEX

PORTABLE DATA AND COLOR CHANGER CABLES

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



WDP222T



WDP224T



WDPCCT

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

RoHS
Compliant

- Cable is RoHS compliant
- TMB UK and Canada cable assemblies RoHS compliant
- TMB US cable assemblies RoHS compliant by request



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SPECIFICATIONS

		WDP222T	WDP224T
Conductors	Material	22 AWG [0.34 mm ²] 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	0.415mm [0.016"]	0.415mm [0.016"]
	Overall Diameter	1.8mm [0.0702"]	1.8mm [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	
	Wall Thickness	0.90mm +/- 0.05mm [0.035"/+/-0.002"]	1.30mm +/- 0.05mm [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	5.2mm +/- 0.2mm [0.203" +/- 0.0079"]	8.3mm +/- 0.2mm [0.324" +/- 0.0079"]
	Weight	36 kg/km [24.2 lb/1000'] Approx.	84 kg/km [56.5 lb/1000'] Approx.
	Temperature	-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		

		WDPCCCT		
		Data Pair	Power Pair	
Conductors		22 AWG [0.34 mm ²] tinned copper stranded 19/0.16mm	14AWG [2.5 mm ²] 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	
Jacket	Material	FR-PVC		
	Color	Black		
	Wall Thickness	0.8 mm nom.		
Marking	DATAPLEX WDPCCCT DIGITAL SCROLLER CABLE VW-1 CE 05181 METER 1036800/141020			
Physical	Overall Diameter	7.5 mm nom.		
	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.		