ProPlex®

PROPLEX IP RATED DMX ASSEMBLIES
1-PAIR and 2-PAIR

Description
ProPlex Portable DMX Data extension assemblies are available with Neutrik™ 5-Pin or 3-Pin IP rated XLR connectors in Black or Silver. Also available with custom connector adapter configurations.

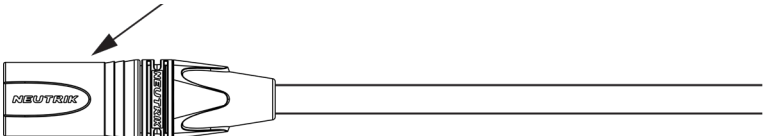
Features
- **PC224P:** 2-pair DMX512 cable, Extra-rugged, double-shielded, low capacitance
- **PC222P:** 1-pair DMX512 cable, Extra-rugged, double-shielded, low capacitance
- 5 pole female cable connector, TRUE OUTDOOR PROTECTION (TOP), gold contacts
- The X-TOP series is a "heavy-duty" XLR cable connector for outdoor use. IP65 rated and TOP approved in consideration to UL50E by mating with related cable or chassis connector of the XLR TOP range

Applications
Theatre, Touring, Motion Pictures, Television, Live Events

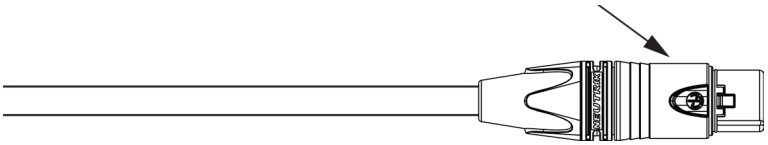
Available Cables
2-Pair DMX
1-Pair DMX

Available Connectors
Neutrik™ 5-Pin Black XLR
Neutrik™ 5-Pin Silver XLR
Neutrik™ 3-Pin Black XLR
Neutrik™ 3-Pin Silver XLR

Male Connector Options
Neutrik™ 5-Pin Black XLR
Neutrik™ 5-Pin Silver XLR
Neutrik™ 3-Pin Black XLR
Neutrik™ 3-Pin Silver XLR



Female Connector Options
Neutrik™ 5-Pin Black XLR
Neutrik™ 5-Pin Silver XLR
Neutrik™ 3-Pin Black XLR
Neutrik™ 3-Pin Silver XLR



FIRST AND STILL THE BEST!
TMB Pro Cables – High-quality custom cable assemblies for the entertainment production and staging industry since 1983! Over 60 highly skilled assembly technicians worldwide. Well over 400 years combined experience! Rigorous testing and quality control. Famous TMB Rush Service Normal!

MADE IN THE USA

ProPlex "P" series data cables are built to survive the toughest conditions, yet handle and coil well, again and again and again. They have been exhaustively developed, tested and re-tested. When data transmission is critical, there is only one option.

Worldwide Exclusive Distribution

RoHS Compliant

UL LISTED

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

© 2024, TMB. All rights reserved. LITPROPLEXP Effective: 30 August 2024
Specifications are subject to change without notice. This information supersedes all previously supplied information.

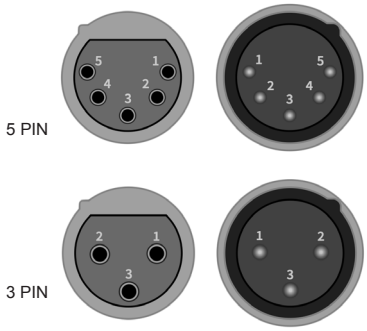
sales@tmb.com

Specifications		
Part Number	**PC222P**	**PC224P**
Conductors	22 AWG [0.34 mm²] Tinned, annealed copper stranded 19 x 34	
Insulation	200° C, 300 Volt FEP. Nom. wall: 0.38 mm [0.015"] Min. wall: 0.33 mm [0.013"]	
Color Code	Black paired with White	Black paired with White, Red paired with Green
Assembly	Pairs cabled with Kevlar strength member	
Shield	Inner: Aluminum / mylar, 100% coverage Outer: Tinned copper braid, 85% coverage	
Drain	None	
Jacket	Black UV-resistant Polyurethane Nom. wall: 1.52 mm [0.060"] Elongation: 550% Tensile strength: 5,000 psi High pressure extrusion	
Legend	PROPLEX PC222P 22 AWG 1 PAIR LOW CAP SHIELDED CONTROL CABLE	PROPLEX PC224P 22 AWG 2 PAIR LOW CAP SHIELDED CONTROL CABLE
Physical	Outside diameter: 5.46 mm [0.215"] nom. Weight: 41.3 Kg. per Km. [29 lbs/ 1,000 ft]	Outside diameter: 7.24 mm [0.285"] nom. Weight: 64 Kg. per Km. [45 lbs/ 1,000 ft]
Temperature	Plus 105° C, minus 40° C	
Conductivity	14.5 Ohms (max.) per 304.8 m. @ 25° C	
Characteristic Impedance	80 Ohms	110 Ohms
Capacitance	22pf / 30.48cm. nom. cond.-to-cond. 41pf / 30.48cm. nom. cond.-to-shield	13pf / 30.48cm. nom. cond.-to-cond. 25pf / 30.48cm.z nom. cond.-to-shield
Inductance	0.32 uH / 30.48cm. nom.	0.31 uH / 30.48cm. nom.
Bend Radius	3.302 cm. minimum	4.445 cm. minimum

Extra-rugged, flexible data cables, double-shielded, low capacitance. Suitable for MIDI, DMX512, RS485/RS422 and other formats in portable applications.

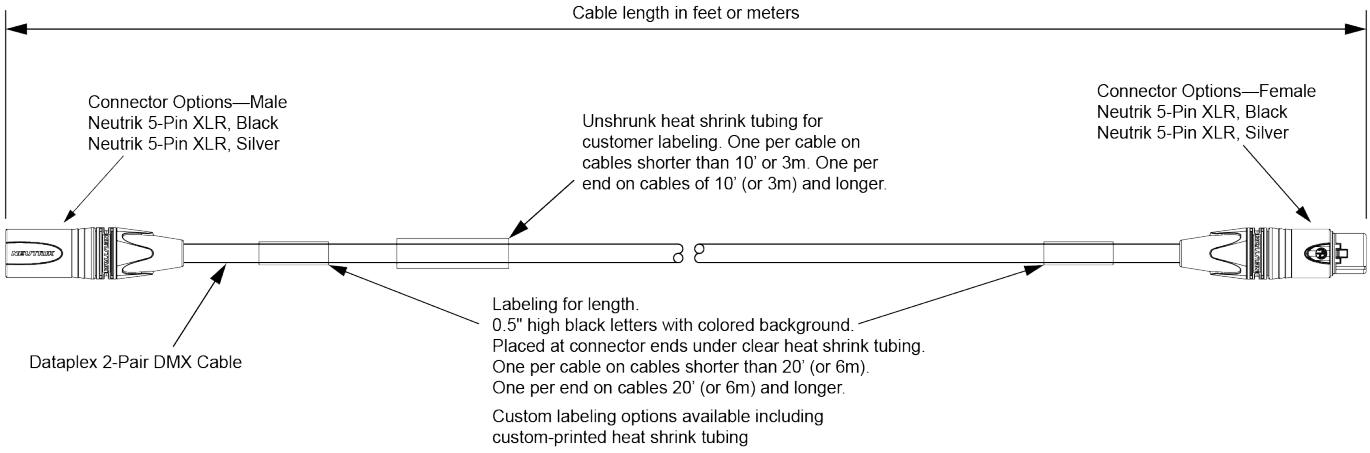
TESTING: TMB guarantees that all ProPlex data cables perform to specification as follows: Continuity, Impedance, and Capacitance.

Pin Connectors			
5 PIN		**3 PIN**	
1	GROUND	1	GROUND
2	DMX DATA +	2	DMX DATA +
3	DMX DATA -	3	DMX DATA -
4	AUX DMX DATA +		
5	AUX DMX DATA -		



© 2024, TMB. All rights reserved. LITPROPLEXP Effective: 30 August 2024
Specifications are subject to change without notice. This information supersedes all previously supplied information.

PROPLEX IP RATED DMX ASSEMBLIES
1-PAIR



NOT TO SCALE

Example Code

Z	PP4	5NB	TOP	25	L

Z	Designates cable assembly

PP4	ProPlex 2-Pair DMX Cable

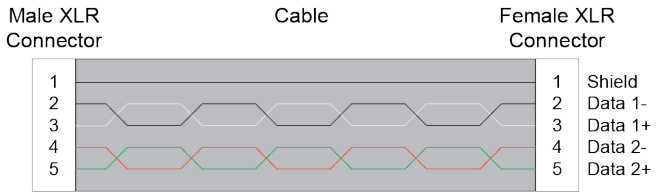
5NB	Neutrik 5-Pin Black XLR Connectors
5NS	Neutrik 5-Pin Silver XLR Connectors

TOP	IP Rated

25	Length of cable in feet
25M	Length of cable in meters

	Skip this section unless ordering custom labeling
L	Custom labeling per spec

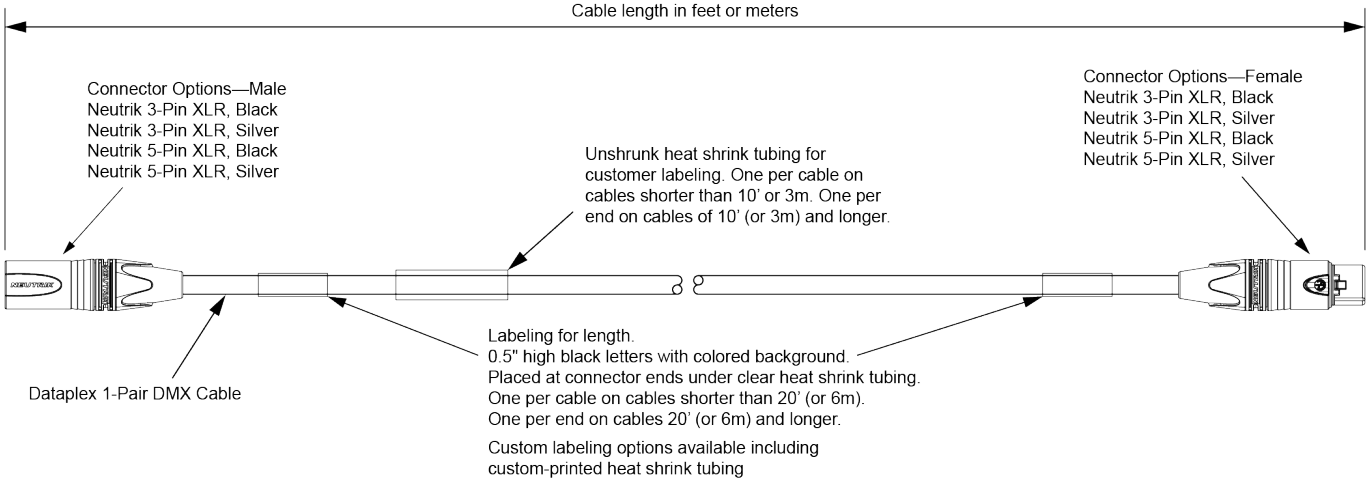
ELECTRICAL SCHEMATIC



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

© 2024, TMB. All rights reserved. LITPROPLEXP Effective: 30 August 2024
Specifications are subject to change without notice. This information supersedes all previously supplied information.

PROPLEX IP RATED DMX ASSEMBLIES
2-PAIR



NOT TO SCALE

Example Code

Z	PP2	3NB	TOP	25	L

Z	Designates cable assembly

PP2	ProPlex 1-Pair DMX Cable

3NB	Neutrik 3-Pin Black XLR Connectors
3NS	Neutrik 3-Pin Silver XLR Connectors
5NB	Neutrik 5-Pin Black XLR Connectors*
5NS	Neutrik 5-Pin Silver XLR Connectors*

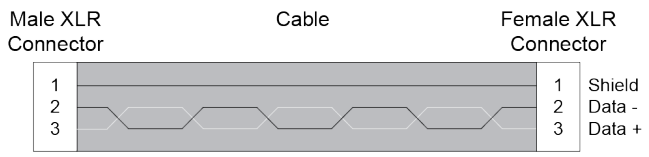
* pins 4-5 unwired

TOP	IP Rated

25	Length of cable in feet
25M	Length of cable in meters

	Skip this section unless ordering custom labeling
L	Custom labeling per spec

ELECTRICAL SCHEMATIC



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

© 2024, TMB. All rights reserved. LITPROPLEXP Effective: 30 August 2024
Specifications are subject to change without notice. This information supersedes all previously supplied information.