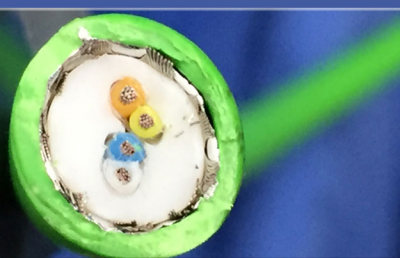




PLTC-ER Rated Communication Cable Product Focus

When To Choose PLTC-ER Communication Cable Power Limited Tray Cable - Exposed Run

DataMax® Extreme PLTC-ER is now available for Profinet type B, C, and Ethernet/IP Cat 5e applications. These ground-breaking cable constructions are the newest addition to our line of dependable harsh environment cabling solutions. Cables feature the PLTC-ER rating earned by passing crush and impact testing typically found on armored cables. In addition to the robust design, it is also approved for hi-flex applications making it an ideal choice for a number of applications where a rugged communication cable is appropriate.



DESIGN FEATURES

- 22 AWG Stranded Tinned Copper
- Twisted Pair Construction
- Embedded TPE Core
- Overall Shield/Braid
- TPE Jacket
- Hi-Flex & Torsion Life
- Crush & Impact Resistant
- RoHS Compliant

BENEFITS

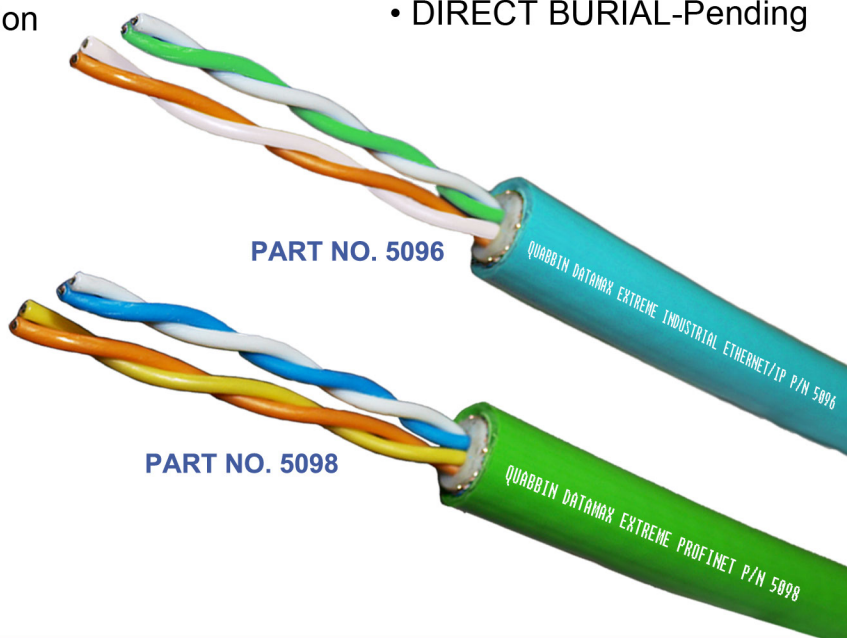
- Can be run up to 50' without conduit or tray
- Crush Resistant
- Flexible
- Weight Advantage vs. Armored Cable
- Cost Advantage vs. Armored Cable
- UV Resistant
- Weld Spatter Resistant

APPLICATIONS

- Oil & Gas
- Motor Controllers
- Automation
- Machine Vision

LISTINGS/RATINGS

- NEC (UL) Type PLTC-ER
- NEC (UL) Type CM
- CEC C(UL) Type CM
- DIRECT BURIAL-Pending



Rugged. Reliable. Trusted to Eliminate Downtime.
www.quabbin.com

Choose DataMax® Extreme PLTC-ER

When your application calls for:

- Crush & Impact Resistant Communication Cable
- 50' Of Open Wire Cabling - No Tray Needed
- Proven Torsional & Rolling Bend Flex Life
- An Alternative to Armored Cable
- Weld Spatter Resistance
- UV Protection
- Performance in -40°C Temperatures
- A Cable Suitable for Class I&II Div 2 Locations and Class III Div 1&2 Locations (with approved terminations)

DataMax® Extreme Part Number 5098 Profinet Type B & C PLTC-ER

Component	Construction	Nominal Diameter	
CONDUCTOR	22 AWG 19/.0058 Stranded Tinned Copper	.0280"	
INSULATION	High density polyethylene, .013" nom. Wall thickness	.055"	
PAIRS	Color coded singles twisted into pairs and wrapped with an overall clear polyester tape	.113"	
CABLE	(2) twisted pairs cabled together embedded within a core of thermoplastic elastomer	.292"	
SHIELDS	An overall shield of 36 AWG tinned copper braid (65% minimum coverage), shall be applied over the cable core. A second shield of an overall aluminized polyester foil shield (foil in, 100% coverage) shall be applied over the braid	.318"	
JACKET	Thermoplastic Elastomer, green (CR#70), .046" nom. Wall thickness (pressure)overall cable diameter	.410"	
Physical Properties			
TEMPERATURE RATING	75°C Max	-40°C Min (Static)	
WEIGHT (WT./M', NOM., NET.)	86.1lbs		
FLEX	1 Million Cycle Test (10X Cable O.D. Min Radius) 10 Million Cycle Test (20X Cable O.D. Min Radius)		
TORSION	3 Million Cycle Test (1lb Load, 360°, 71 Cycles/Min @ 20° C)		
Agency Approvals	Application	Print	Color Code
NEC (UL) Type PLTC-ER	Patch cable for Profinet Type B & C and Ethernet/IP Cat 5e applications. Meets EU Directive 2011/65/EU (RoHS II)	Quabbin DataMax Extreme Profinet P/N 5098 Cat 5e 2PR 22 AWG Shielded (UL) Type PLTC-ER 75C Sun Res -40C or C(UL)US Type CM—CE RoHS	1. White X 2. Blue
NEC(UL) Type CM			3. Yellow X 4. Orange
CEC C (UL) Type CM			
Direct Burial - PENDING			

DataMax® Extreme Part Number 5096 Ethernet/IP PLTC-ER

Component	Construction	Nominal Diameter		
CONDUCTOR	22 AWG 19/.0058 Stranded Tinned Copper	.0280"		
INSULATION	High density polyethylene, .013" nom. Wall thickness	.055"		
PAIRS	Color coded singles twisted into pairs and wrapped with an overall clear polyester tape	.113"		
CABLE	(2) twisted pairs cabled together embedded within a core of thermoplastic elastomer	.292"		
SHIELDS	An overall shield of 36 AWG tinned copper braid (65% minimum coverage), shall be applied over the cable core. A second shield of an overall aluminized polyester foil shield (foil in, 100% coverage) shall be applied over the braid	.318"		
JACKET	Thermoplastic Elastomer, teal, .046" nom. Wall thickness (pressure)overall cable diameter	.410"		
Physical Properties				
TEMPERATURE RATING	75°C Max	-40°C Min (Static)		
WEIGHT (WT./M', NOM., NET.)	86.1lbs			
FLEX	1 Million Cycle Test (10X Cable O.D. Min Radius) 10 Million Cycle Test (20X Cable O.D. Min Radius)			
TORSION	3 Million Cycle Test (1lb Load, 360°, 71 Cycles/Min @ 20° C)			
Agency Approvals		Application	Print	Color Code
NEC (UL) Type PLTC-ER		Patch cable for Ethernet/IP Cat 5e applications. Meets EU Directive 2011/65/EU (RoHS II)	Quabbin DataMax Extreme High Flex Industrial Ethernet/IP Patch Cord P/N 5096 Cat 5e 2PR 22 AWG Shielded (UL) Type PLTC-ER 75C Sun Res -40C or C(UL)US Type CM—CE RoHS	1. Green X 2. White/Green
NEC(UL) Type CM				3. Orange X 4. White/Orange
CEC C (UL) Type CM				
Direct Burial - PENDING				

DataMax® Extreme PLTC-ER Communication Cable Comparison Chart

This chart evaluates the benefits of several different communication cables that are currently available and being used in Harsh Environment applications.

CABLE ATTRIBUTES	DATAMAX® PLTC-ER CABLE	ARMORED PLTC CABLE	CM OR EQUAL HARSH ENVIRONMENT CABLE	COMMERCIAL GRADE CABLE CM
Appropriate for Industrial Use	Excellent	Excellent	Excellent	Poor
Crush Resistant	Excellent	Excellent	Fair	Poor
Installation Ease	Excellent	Good	Good	Poor
Hi-Flex	Excellent	Poor	Excellent	Fair
Ratings Code Compliant for Industrial Use	Excellent	Excellent	Good	Good
All-Purpose Applications	Excellent	Fair	Good	Poor
Unprotected Long Lengths	Excellent	Excellent	Fair	Poor
Cost	Good	Poor	Good	Excellent
Weight	Good	Fair/Poor	Excellent	Excellent



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