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DataMax Extreme™



Orion Wire Company, Inc. has partnered with Quabbin Wire & Cable Co., Inc., the industry leading manufacturer of Industrial Ethernet Cables, to provide our customers with solutions for connecting their equipment in harsh environments.

The DataMax Extreme[™] line of Industrial Ethernet Cables are designed to withstand mechanical abuse such as



vibration, crushing, and impact well beyond the levels typically found in a commercial office setting while maintaining electrical performance above the requirements of TIA/EIA 568-B for Category 5e cables.

Available in 2-pair and 4-pair configurations, *DataMax Extreme*TM cables are ideal for 10Base-T or 100Base-T applications. The cable jackets are specifically designed for harsh environments and offer superior cut-though, tear, and abrasion resistance as well as excellent resistance to weathering, moisture and many industrial fluids.

Cable Design Benefits

- Pressure extruded jacket binds core in place providing a higher level of crush resistance while retaining flexibility and superior flex life
- Wider functional temperature range of up to -40C to 75C including improved low temperature flexibility performance
- Excellent resistance to weathering when compared to pre-RoHS materials
- Enhanced resistance to humidity and moisture elongation
- Outstanding tear resistance combined with reduced susceptibility to abrasion
- Far superior oil resistance based on ASTM Fuel A & B submersion analysis
- Tensile strength of up to ~ 4000 psi (compared to 2500 psi for PVC)
 - >1-week air oven @ 121C ~ 3200 psi
 - >1-week air oven @ 140C ~ 2000 psi



Cable Applications

Communication Networks in production and severe duty areas with applications including:

- Industrial computing
- Data collection
- Factory automation/communications
- ♦ Airports
- Automotive assembly
- Billboards (environmentally harsh)
- Casinos
- Fast Food
- Food processing
- Foundries
- Grocery
- Paper mills
- Stadiums
- Theme parks
- Warehouses
- Refineries
- Mining
- and many others...

Contact us for more information regarding the suitability of the *DataMax Extreme*[™] cables for your application.





All *DataMax Extreme™* cables can be terminated with high performance modular plugs or cylindrical metal M12 connectors. The sealed 4-pin M12 connector, used for years in industrial control systems has been adopted for Ethernet transmission.

Through special processing, *DataMax Extreme™* cables maintain their shape and dimensions, allowing for the replacement of connectors in the field while retaining the jacket integrity for proper boot sealing.



DataMax Extreme™

Designing Custom Engineered Wire & Cable Products Since 1990.



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Part Number	Description	Insulation Thickness Inch / mm	Jacket Thickness Inch / mm	Nominal Diameter Inch / mm	1 kft / 305 mtr Ship Weight Ibs / kg
DME-5000	2 Pair / 24 AWG Stranded UTP TPU Jacket - Black	.007 / .180	.020 / .510	.220 / 5.59	17.0 / 7.7
DME-5006	2 Pair / 24 AWG Stranded UTP TPU Jacket - Blue	.007 / .180	.020 / .510	.220 / 5.59	17.0 / 7.7
DME-5016	2 Pair / 24 AWG Stranded UTP TPU Jacket - Teal	.007 / .180	.020 / .510	.220 / 5.59	17.0 / 7.7
DME-5700	4 Pair / 24 AWG Stranded UTP TPU Jacket - Black	.007 / .180	.020 / .510	.220 / 5.59	24.0 / 10.9
DME-5706	4 Pair / 24 AWG Stranded UTP TPU Jacket - Blue	.007 / .180	.020 / .510	.220 / 5.59	24.0 / 10.9
DME-5716	4 Pair / 24 AWG Stranded UTP TPU Jacket - Teal	.007 / .180	.020 / .510	.220 / 5.59	24.0 / 10.9
DME-5020	2 Pair / 22 AWG Stranded UTP TPU Jacket - Black	.009 /.229	.024 / .610	.245 / 6.22	33.6 / 15.2
DME-5021	2 Pair / 22 AWG Stranded UTP TPU Jacket - Blue	.009 / .229	.024 / .610	.245 / 6.22	33.6 / 15.2
DME-5022	2 Pair / 22 AWG Stranded UTP TPU Jacket - Teal	.009 /. <mark>22</mark> 9	.024 / .610	.245 / 6.22	33.6 / 15.2
DME-5120	4 Pair / 22 AWG Stranded UTP TPU Jacket - Black	.009 /.229	.024 / .610	.245 / 6.22	48.9 / 22.2
DME-5121	4 Pair / 22 AWG Stranded UTP TPU Jacket - Blue	.009 /.229	.024 / .610	.245 / 6.22	48.9 / 22.2
DME-5122	4 Pair / 22 AWG Stranded UTP TPU Jacket - Teal	.009 /.229	.024 / .610	.245 / 6.22	48.9 / 22.2
DME-5710	4 Pair / 26 AWG Stranded ScTP TPU Jacket - Black	.010 / .254	.022 / .559	.220 / 5.59	22.5 / 10.2
DME-5711	4 Pair / 26 AWG Stranded ScTP TPU Jacket - Blue	.010 / .254	.022 / .559	.220 / 5.59	22.5 / 10.2
DME-5712	4 Pair / 26 AWG Stranded ScTP TPU Jacket - Teal	.010 / .254	.022 / .559	.220 / 5.59	22.5 / 10.2
DME-5730	4 Pair / 26 AWG Stranded ScTP w/Braid TPU Jacket - Black	.010 / .254	.022 / .559	.220 / 5.59	35.0 / 15.9
DME-5731	4 Pair / 26 AWG Stranded ScTP w/Braid TPU Jacket - Blue	.010 / .254	.022 / .559	.220 / 5.59	35.0 / 15.9
DME-5732	4 Pair / 26 AWG Stranded ScTP w/Braid TPU Jacket - Teal	.010 / .254	.022 / .559	.220 / 5.59	35.0 / 15.9
DME-5770	2 Pair / 24 AWG Stranded UTP TPE Jacket - Black	.007 / .180	.020 / .510	.220 / 5.59	16.2 / 7.3
DME-5771	2 Pair / 24 AWG Stranded UTP TPE Jacket - Blue	.007 / .180	.020 / .510	.220 / 5.59	16.2 / 7.3
DME-5772	2 Pair / 24 AWG Stranded UTP TPE Jacket - Teal	.007 / .180	.020 / .510	.220 / 5.59	16.2 / 7.3
DME-5750	4 Pair / 24 AWG Stranded UTP TPE Jacket - Black	.007 / .180	.020 / .510	.220 / 5.59	22.6 / 10.3
DME-5751	4 Pair / 24 AWG Stranded UTP TPE Jacket - Blue	.007 / .180	.020 / .510	.220 / 5.59	22.6 / 10.3
DME-5752	4 Pair / 24 AWG Stranded UTP TPE Jacket - Teal	.007 / .180	.020 / .510	.220 / 5.59	22.6 / 10.3
DME-5900	2 Pair / 22 AWG Stranded UTP TPE Jacket - Black	.009 /.229	.024 / .610	.245 / 6.22	21.7 / 9.8
DME-5901	2 Pair / 22 AWG Stranded UTP TPE Jacket - Blue	.009 /.229	.024 / .610	.245 / 6.22	21.7 / 9.8
DME-5902	2 Pair / 22 AWG Stranded UTP TPE Jacket - Teal	.009 /.229	.024 / .610	.245 / 6.22	21.7 / 9.8
DME-5800	4 Pair / 22 AWG Stranded UTP TPE Jacket - Black	.009 /.229	.024 / .610	.245 / 6.22	29.7 / 13.5
DME-5801	4 Pair / 22 AWG Stranded UTP TPE Jacket - Blue	.009 /.229	.024 / .610	.245 / 6.22	29.7 / 13.5
DME-5802	4 Pair / 22 AWG Stranded UTP TPE Jacket - Teal	.009 /.229	.024 / .610	.245 / 6.22	29.7 / 13.5

Conductors

22 AWG 7/30 Tinned Copper 24 AWG 7/32 Tinned Copper 26 AWG 7/34 Tinned Copper **Color Code - 2 Pair Cables** Pair 1: White/Blue x Blue Pair 2: White/Orange x Orange **Color Code - 4 Pair Cables** Pair 1: White/Blue x Blue Pair 2: White/Orange x Orange Pair 3: White/Green x Green Pair 4: White/Brown x Brown Mutual CapacitanceI13.5 pF/FT nomV44.3 pF/meter nomV

Impedance: 100 ± 15 Ohms **IP-67 Cord Rating** When used w/proper connectors.

Temperature

-40°C to +75°C

RoHS 2002/95/EC