

DataMax® Industrial Profinet® Solutions

The trusted DataMax® name is now available for Profinet® solutions. Whether your application requires Type A, B or C we have you covered. The unique patented shield system combined with precision twisted pair construction ensures reliable continuous flexing and superior electrical performance, while a robust TPE jacket provides protection from hazards associated with heavy manufacturing.

DESIGN FEATURES

- Type A, B, or C
- 22 AWG Stranded or Solid
- Twisted pair construction
- Thermoplastic Elastomer Jacket (TPE) standard*
- Patented shield system
- POE Compliant to 100 meters
- Meets Cat 5e channel requirements to 100 meters
- RoHS Compliant
- Oil & Chemical Resistance
- Weld Spatter Resistance
- UV Resistance

APPLICATIONS

- Factory Automation
- Automobile Production
- Continuous Flex
- Process Control

LISTINGS/RATINGS

- NEC (UL) Type PLTC
- NEC (UL) Type ITC
- UL AWM Style 2463 (80C 600V)
- Pennsylvania D.E.P - MSHA

**PVC & PUR Jackets available (ratings tbd)*



DataMax® Industrial Profinet® Solutions

PART NO. 5923

1) CONSTRUCTION:		NOM. DIA.
CONDUCTOR:	22 AWG SOLID TINNED COPPER	.0254"
INSULATION:	HIGH DENSITY POLYETHYLENE, .012" NOM. WALL THICKNESS	.050"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.100"
CABLE:	(2) TWISTED PAIRS TWISTED TOGETHER WITH FILLER AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE.	.200"
SHIELDS:	AN OVERALL SHIELD OF 38 AWG TINNED COPPER BRAID (75% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE CABLE CORE. A SECOND SHIELD OF ALUMINIZED POLYESTER FOIL (FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE BRAID.	.219"
JACKET:	THERMOPLASTIC ELASTOMER, GREEN (CR# 70), .043" NOM. WALL THICKNESS (PRESSURE)	.305" (.315" MAX.)
	OVERALL CABLE DIAMETER	BY PI TAPE

2) PHYSICAL PROPERTIES:	
TEMPERATURE RATING, MAX.	75°C & 80°C (JACKET 105°C, 75°C OIL)
TEMPERATURE RATING, MIN.	-40°C (MANUFACTURER'S RECOMMENDED)
WT./M', NOM., NET.	49.1 LBS.
JACKET IS WELD SPATTER RESISTANT	
JACKET IS SUNLIGHT RESISTANT	
JACKET IS CUTTING/MACHINING OIL RESISTANT (PER QUABBIN TEST REPORT #TR 08-0001)	
(6 MONTHS @ 20°C)	
TENSILE STRENGTH RETENTION, NOM.	80%
ELONGATION RETENTION, NOM.	100%
POE COMPLIANT (802.3af) TO 100 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184	
CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 100 METER LENGTH	

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

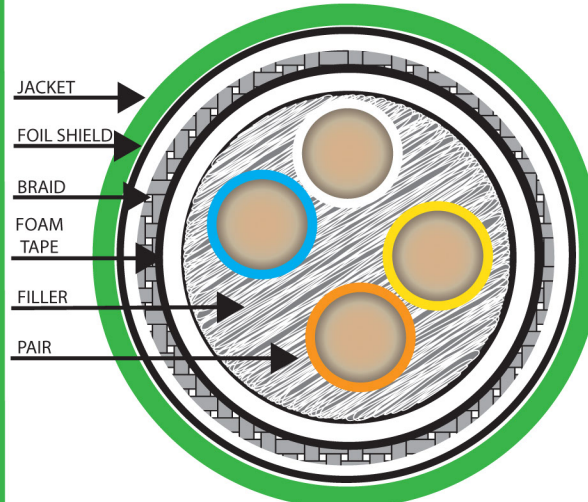
4) AGENCY APPROVALS:
UL AWM STYLE 2463 (80C 600V)
NEC (UL) TYPE PLTC
NEC (UL) TYPE ITC
PENNSYLVANIA D.E.P. - MSHA

5) APPLICATION:
HORIZONTAL CABLE FOR PROFINET TYPE A CAT 5e APPLICATIONS. RoHS COMPLIANT MATERIALS.
U.S. PATENT NO. US 8,487,184 B2

6) PRINT:
QUABBIN DATAMAX INDUSTRIAL PROFINET TYPE A CAT 5E SHIELDED P/N 5923 -- U.S. PATENT NO. US 8,487,184 B2 --
(UL) TYPE PLTC 2PR 22 AWG SF/UTP 75C
SUNLIGHT RESISTANT OIL RES II OR ITC OR
AWM 2463 80C 600V -- P-07-KA140018-MSHA --
RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

7) COLOR CODE:
1. BLUE X WHITE
2. ORANGE X YELLOW

8) PACKAGING:
TO BE PACKAGED AS PER QWC'S
STANDARD PACKAGING



1) CONSTRUCTION:		NOM. DIA.
CONDUCTOR:	22 AWG 19/.0058 STRANDED TINNED COPPER	.0280"
INSULATION:	HIGH DENSITY POLYETHYLENE, .013" NOM. WALL THICKNESS	.054"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.108"
CABLE:	(2) TWISTED PAIRS TWISTED TOGETHER WITH FILLER AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE.	.207"
SHIELDS:	AN OVERALL SHIELD OF 38 AWG TINNED COPPER BRAID (75% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE CABLE CORE. A SECOND SHIELD OF ALUMINIZED POLYESTER FOIL (FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE BRAID.	.226"
JACKET:	THERMOPLASTIC ELASTOMER, GREEN (CR70), .042" NOM. WALL THICKNESS (PRESSURE)	.310" (.315" MAX.)
	OVERALL CABLE DIAMETER	BY PI TAPE

2) PHYSICAL PROPERTIES:	
TEMPERATURE RATING, MAX.	75°C & 80°C (JACKET 105°C, 75°C OIL)
TEMPERATURE RATING, MIN.	-40°C (MANUFACTURER'S RECOMMENDED)
WT./M', NOM., NET.	47.2 LBS.
JACKET IS WELD SPATTER RESISTANT	
JACKET IS SUNLIGHT RESISTANT	
JACKET IS CUTTING/MACHINING OIL RESISTANT (PER QUABBIN TEST REPORT #TR 08-0001)	
(6 MONTHS @ 20°C)	
TENSILE STRENGTH RETENTION, NOM.	80%
ELONGATION RETENTION, NOM.	100%
FLEX LIFE (PENDING)	
(126 CYCLES/MIN, @ 20°C)	1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS)
	10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)
TORSION TEST (PENDING)	
(1 LB LOAD, 360°, 71 CYCLES/MIN, @ 20°C)	3 MILLION CYCLE TEST
POE COMPLIANT (802.3af) TO 100 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184	
CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 100 METER LENGTH	

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

4) AGENCY APPROVALS:
UL AWM STYLE 2463 (80C 600V)
NEC (UL) TYPE PLTC
NEC (UL) TYPE ITC
PENNSYLVANIA D.E.P. - MSHA

5) APPLICATION:
PATCH CABLE FOR PROFINET TYPE B AND C CAT 5e APPLICATIONS. RoHS COMPLIANT MATERIALS.
U.S. PATENT NO. US 8,487,184 B2

6) PRINT:
QUABBIN DATAMAX INDUSTRIAL PROFINET TYPE B
AND C CAT 5E SHIELDED P/N 5924 -- U.S. PATENT
NO. US 8,487,184 B2 -- (UL) TYPE PLTC 2PR 22 AWG
SF/UTP 75C SUNLIGHT RESISTANT OIL RES II OR ITC
OR AWM 2463 80C 600V -- P-07-KA140018-MSHA --
RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

7) COLOR CODE:
1. BLUE X WHITE
2. ORANGE X YELLOW

8) PACKAGING:
TO BE PACKAGED AS PER QWC'S
STANDARD PACKAGING

PART NO. 5924



Quabbin Wire and Cable Co., Inc. 10 Maple Street, Ware, MA 01082
800.368.3311 • 413.967.6281 • fax 413.967.7564 • www.quabbin.com