

Metric Industrial Series Cable & Wire



AUTHORISED REPRESENTATIVE:

MEDS Interconnect Pte Ltd

5012 Ang Mo Kio 5, #03-09 Techplace II (East Wing), Singapore 569876

Email: sales.marketing@meds-int.com | Tel: +65 6235 6355



AlphaWire

Cables you trust. Service you deserve.

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Pro-Met® 480 Continuous Flex Control Cable

600V TPE/PVC, 10M flex life cycles



Solution

Pro-met 480 is the high flex drag chain oil resistant multi-conductor cable with TPE insulation, high performance PVC inner and outer jacket. This series is designed for use in robotics, machine tools and industrial automation where cables service for dynamic drag chain applications.

Key Features

- Size 0.25 mm² - 25 mm²
- Stranded bare copper conductors (IEC 60228 Class 6)
- TPE Insulation
- PVC inner and outer jacket
- Color: Grey (RAL 7001)
- Unshielded & shielded
- ++/-90° per meter Torsion Flex (Unshielded)
- Larger size and more conductors customization available

Applications

- Robotic arms
- Machine tools
- Industrial Automation

Compliant with following International standards:

DIN VDE 0295 Class 6 & IEC60228 Class 6

IEC 60332-1, FT-1, VW-1

DIN VDE 0293

UL AWM 2570

RoHS & CE & REACH



Pro-Met® 480 Continuous Flex Control Cable

600V TPE/PVC Unshielded, Multiconductor, 10M flex cycles

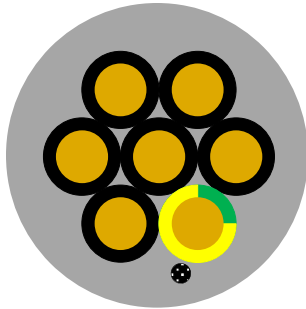
Conductor Material	Stranded bare copper (IEC 60228 Class 6)
Insulation Material & Color	Material: TPE (Thermoplastic Elastomer) Color: Black insulation with continuous white number, one Yellow/Green grounding wire ($\geq 3C$)
Jacket Material & Color	Material: PVC (polyvinyl chloride) Color: Grey RAL 7001
Flame Retardancy	IEC 60332-1-2, FT-1, VW-1
Voltage Rating	600Vrms
Oil Resistant	Yes
Temperature Range	5 °C to +80 °C (dynamic application) -20 °C to +80 °C (fixed installation)
Bending Radius	Min. 5 x OD (fixed installation)
Flex Performance Reference	10 million flex life cycles @+15-60°C travel distance < 10m, Min bending radius 9.5 x OD travel distance \geq 10m, Min bending radius 12 x OD +/-90° per meter Torsion Flex performance
Availability	100m, 300m

General Reference Standards

- DIN VDE 0295 Class 6 & IEC60228 Class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS & REACH & CE Directives

Pro-Met® 480 Continuous Flex Control Cable

600V TPE/PVC Unshielded, Multiconductor, 10M flex cycles



Operating Temperature

- -20°C ~ +80°C (fixed installation)
- 5°C ~ +80°C (dynamic application)

Insulation Color

Black with continuous white number, one Yellow/Green grounding wire ($\geq 3C$)

Materials

- Stranded bare copper conductors
- TPE insulation
- PVC jacket
- Rip Cord

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS & REACH & CE Directives

Availability

- 100 m (GE 434)
- 300 m (GE 432)

0.25 mm ² (23 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800301YY	3	32/0.10	4.7
4800401YY	4	32/0.10	5.0
4800601YY	6	32/0.10	5.8
4800701YY	7	32/0.10	6.4
4801201YY	12	32/0.10	7.8
4802001YY	20	32/0.10	11.5
4802501YY	25	32/0.10	12.8
4803001YY	30	32/0.10	14.2

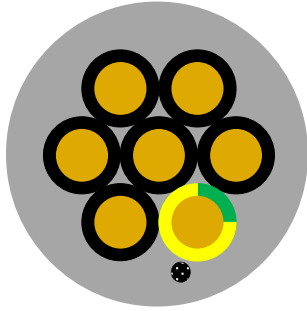
0.34 mm ² (22 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800202YY	2	42/0.10	4.6
4800502YY	5	42/0.10	5.7

0.50 mm ² (21 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800203YY	2	64/0.10	5.0
4800303YY	3	64/0.10	5.5
4800403YY	4	64/0.10	5.7
4800503YY	5	64/0.10	6.5
4800703YY	7	64/0.10	7.5
4801203YY	12	64/0.10	9.1
4801803YY	18	64/0.10	13.6
4802503YY	25	64/0.10	15.2

0.75 mm ² (19 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800204YY	2	42/0.15	5.4
4800304YY	3	42/0.15	5.7
4800404YY	4	42/0.15	6.3
4800504YY	5	42/0.15	7.0
4800704YY	7	42/0.15	8.0
4801204YY	12	42/0.15	9.7
4801804YY	18	42/0.15	15.2
4802504YY	25	42/0.15	16.8
4803604YY	36	42/0.15	20.7
4804204YY	42	42/0.15	22.0

Pro-Met® 480 Continuous Flex Control Cable

600V TPE/PVC Unshielded, Multiconductor, 10M flex cycles



Operating Temperature

- -20°C ~ +80°C (fixed installation)
- 5°C ~ +80°C (dynamic application)

Insulation Color

Black with continuous white number, one Yellow/Green grounding wire ($\geq 3C$)

Materials

- Stranded bare copper conductors
- TPE insulation
- PVC jacket
- Rip Cord

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS & REACH & CE Directives

Availability

- 100 m (GE 434)
- 300 m (GE 432)

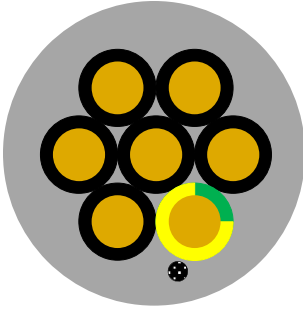
1.0 mm ² (17 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800205YY	2	56/0.15	5.8
4800305YY	3	56/0.15	6.2
4800405YY	4	56/0.15	6.8
4800505YY	5	56/0.15	7.5
4800705YY	7	56/0.15	9.0
4801205YY	12	56/0.15	10.9
4801805YY	18	56/0.15	16.4
4802505YY	25	56/0.15	18.4

1.5 mm ² (15 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800206YY	2	84/0.15	6.5
4800306YY	3	84/0.15	6.9
4800406YY	4	84/0.15	8.0
4800506YY	5	84/0.15	8.3
4800706YY	7	84/0.15	10.1
4801206YY	12	84/0.15	12.8
4801806YY	18	84/0.15	18.5
4802506YY	25	84/0.15	20.8
4803606YY	36	84/0.15	25.2
4804206YY	42	84/0.15	28.2

2.5 mm ² (13 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800307YY	3	140/0.15	8.9
4800407YY	4	140/0.15	9.5
4800707YY	7	140/0.15	13.3
4801207YY	12	140/0.15	16.3

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Operating Temperature

- -20°C ~ +80°C (fixed installation)
- 5°C ~ +80°C (dynamic application)

Insulation Color

Black with continuous white number, one Yellow/Green grounding wire ($\geq 3C$)

Materials

- Stranded bare copper conductors
- TPE insulation
- PVC jacket
- Rip Cord

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS & REACH & CE Directives

Availability

- 100 m (GE 434)
- 300 m (GE 432)

4.0 mm ² (11 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800308YY	3	244/0.15	10.7
4800508YY	5	244/0.15	13.2

6.0 mm ² (9 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800409YY	4	343/0.15	13.8
4800509YY	5	343/0.15	15.3

10.0 mm ² (7 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800510YY	5	570/0.15	20.4

16.0 mm ² (5 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800511YY	5	627/0.18	24.3

25.0 mm ² (3 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800512YY	5	969/0.18	30.2

Pro-Met® 480 Continuous Flex Control Cable

600V TPE/PVC Braid Shielded, Multiconductor, 10M flex cycles

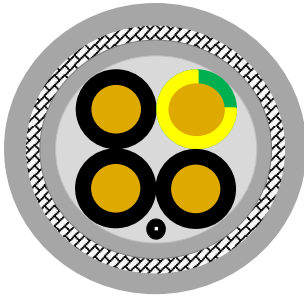
Conductor Material	Stranded bare copper (IEC 60228 Class 6)
Insulation Material & Color	Material: TPE (Thermoplastic Elastomer) Color: Black insulation with continuous white number, one Yellow/Green grounding wire ($\geq 3C$)
Shielding Material	Tinned copper wire braiding, 80% coverage
Jacket Material & Color	Material: PVC (polyvinyl chloride) Color: Grey RAL 7001
Flame Retardancy	IEC 60332-1-2, FT-1, VW-1
Voltage Rating	600Vrms
Oil Resistant	Yes
Temperature Range	5 °C to +80 °C (dynamic application) -20 °C to +80 °C (fixed installation)
Bending Radius	Min. 7.5 x OD (fixed installation)
Flex Performance Reference	10 million flex life cycles @+15~60°C travel distance < 10m, Min bending radius 9.5 x OD travel distance \geq 10m, Min bending radius 12 x OD
Availability	100m, 300m

General Reference Standards

- DIN VDE 0295 Class 6 & IEC60228 Class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS & REACH & CE Directives

Pro-Met® 480 Continuous Flex Control Cable

600V TPE/PVC Braid Shielded, Multiconductor, 10M flex cycles



Operating Temperature

- -20°C ~ +80°C (fixed installation)
- 5°C ~ +80°C (dynamic application)

Insulation Color

Black with continuous white number, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors
- TPE insulation
- PVC inner jacket
- Tinned copper wire braiding, 80% coverage
- PVC outer jacket
- Rip Cord

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS & REACH & CE Directives

Availability

- 100 m (GE 434)
- 300 m (GE 432)

0.25 mm ² (23 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4801201CY	12	32/0.10	9.3

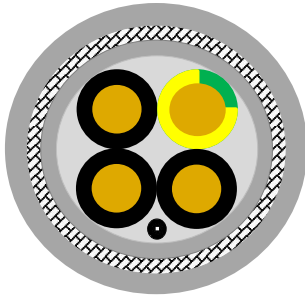
0.34 mm ² (22 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800502CY	5	42/0.10	7.0

0.50 mm ² (21 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800303CY	3	64/0.10	7.0
4800503CY	5	64/0.10	8.5
4801803CY	18	64/0.10	15.5
4803603CY	36	64/0.10	21.3

0.75 mm ² (19 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800304CY	3	42/0.15	8.0
4800404CY	4	42/0.15	8.0
4800504CY	5	42/0.15	8.7
4800704CY	7	42/0.15	10.0
4801204CY	12	42/0.15	12.0
4801804CY	18	42/0.15	17.3
4802504CY	25	42/0.15	19.2
4803604CY	36	42/0.15	23.3
4804204CY	42	42/0.15	25.6

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600V TPE/PVC Braid Shielded, Multiconductor, 10M flex cycles



Operating Temperature

- -20°C ~ +80°C (fixed installation)
- 5°C ~ +80°C (dynamic application)

Insulation Color

Black with continuous white number, one Yellow/Green grounding wire ($\geq 3C$)

Materials

- Stranded bare copper conductors
- TPE insulation
- PVC inner jacket
- Tinned copper wire braiding, 80% coverage
- PVC outer jacket
- Rip Cord

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS & REACH & CE Directives

Availability

- 100 m (GE 434)
- 300 m (GE 432)

1.0 mm ² (17 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800205CY	2	56/0.15	7.8
4800305CY	3	56/0.15	8.1
4800405CY	4	56/0.15	9.0
4800505CY	5	56/0.15	9.5
4800705CY	7	56/0.15	11.0
4801205CY	12	56/0.15	13.0
4801805CY	18	56/0.15	19.2
4802505CY	25	56/0.15	21.4

1.5 mm ² (15 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800306CY	3	84/0.15	9.0
4800406CY	4	84/0.15	9.5
4800506CY	5	84/0.15	10.7
4800706CY	7	84/0.15	12.4
4801206CY	12	84/0.15	17.8
4801806CY	18	84/0.15	21.5
4802506CY	25	84/0.15	23.8
4803606CY	36	84/0.15	28.8
4804206CY	42	84/0.15	31.8

2.5 mm ² (13 AWG)			
Part Number	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800307CY	3	140/0.15	11.2
4800407CY	4	140/0.15	11.5