

Metric Industrial Series Cable & Wire



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Metric EcoWire®

600V mPPE Hook-up Wire



Solution

Metric EcoWire® hook-up wire is a smaller, lighter alternative to PVC. The modified polyphenylene ether (mPPE) thermoplastic insulation provides better performance than PVC in a more compact, eco-friendly package.

Key Features

- Size 0.25 mm² - 2.5 mm²
- Stranded tinned copper conductor
- mPPE Insulation
- 45% smaller and 40% lighter
- No halogens, phthalates, or heavy metal
- 100% recyclable
- Color: White, Black, Red, Green, Yellow, Blue, Brown, Orange, Violet, Green/Yellow

Applications

- Internal wiring of electrical appliances
- Internal wiring of electronics and electrical equipments
- Internal wiring of industrial machine tools and equipments
- Internal wiring of electric tools
- Internal Wiring of medical equipment

Compliant with following International standards:

UL AWM 11028, UL VW-1

CSA AWM 1 A/B FT1

IEC 60332-2

RoHS & CE & REACH



Metric EcoWire				
Part Number	Size (mm ²)	Stranding Conductor (mm)	Insulation Thickness (mm)	Nominal Diameter (mm)
67025	0.25	32/0.10	0.25	1.14
67050	0.50	28/0.16	0.25	1.43
67075	0.75	42/0.16	0.25	1.65
67010	1.00	56/0.16	0.28	1.88
67150	1.50	84/0.16	0.28	2.18
67250	2.50	140/0.16	0.31	2.71

Metric EcoWire®

600V mPPE Hook-up Wire



Conductor Material	Stranded tinned copper
Insulation Material	Modified polyphenylene ether (mPPE)
Color	White, Black, Red, Green, Yellow, Blue, Brown, Orange, Violet, Green/Yellow
Flame Retardancy	UL AWM 11028, UL VW-1
Voltage Rating	600 V
Temperature Range	-40°C to +105°C
Available	50m, 100m, 500m

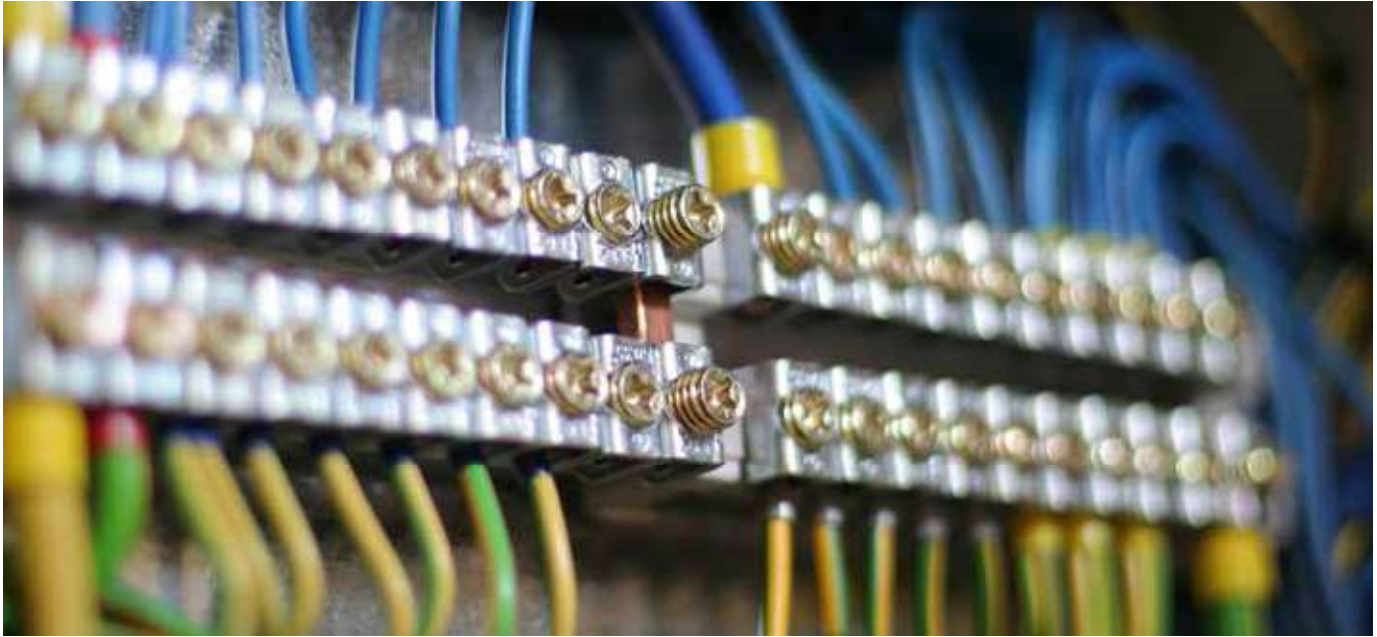
General Reference Standards

- UL AWM 11028, UL VW-1
- CSA AWM A/B FT1
- IEC 60332-2
- RoHS & REACH & CE Directives

	PVC leading competitor	EcoWire 1.5 mm ²
Voltage	600V	600V
Temperature Range	-20°C to +105°C	-40°C to +105°C
Insulation Thickness	0.79 to 0.81 mm (0.031" to 0.032")	0.24 to 0.32 mm (0.010" to 0.012")
Nominal Diameter	1.30 to 4.10 mm (0.051" to 0.161")	1.14 to 2.71 mm (0.045" to 0.107")
Halogen Free	No	Yes
Front View 1.5 mm ² (15 AWG Wire)		
Side View 1.5 mm ² (15 AWG Wire)		

H05V-K & H07V-K Hook-up Wire

300/500V & 450/750V PVC



Solution

H05V-K & H07V-K Hook-up Wire is suitable for applications that laid in pipes, exposed or buried in cement or installed in sealed pipes, it can also be used for wire harness installations in switchgear cabinets.

Key Features

- Size 0.5 mm² - 185 mm²
- Single conductor - stranded bare copper (DIN VDE 0295 Class 5, UL758)
- PVC insulation
- Color: Black, Blue, Brown, Red, Green, White, Yellow, Yellow/Green

Applications

- Internal wiring of electrical appliances
- Internal wiring of electronics and electrical equipments
- Switches, PCB boards, wiring boards in production facilities
- Internal wiring of industrial machine tools and equipments
- Internal wiring of electric tools
- Internal Wiring of medical equipment
- Installation wiring of sealed pipes
- Internal wiring of vending machines and ATM

Compliant with following International standards:

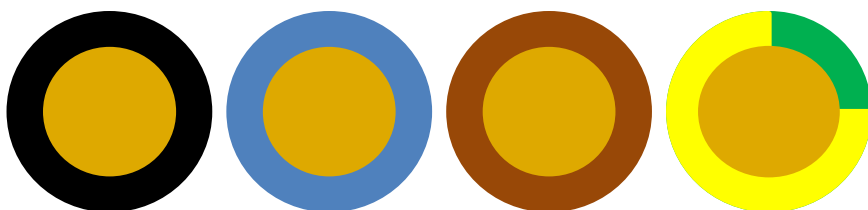
DIN VDE 0295, IEC 60228, BS 6360, UL1581

DIN EN 50290-2-22(TM54), DIN VDE 0270-363-3

IEC 60227-3, EN 50525-2-31, HD 21.3, VDE 0281, UL 758

DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2

RoHS & CE & REACH



H05V-K Hook-up Wire

300/500V PVC

Conductor Material	Stranded bare copper (DIN VDE 0295 Class 5)
Insulation Material	PVC (polyvinyl chloride)
Color	Black, Blue, Brown, Red, Green, White, Yellow, Yellow/Green
Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2, VW-1
Voltage Rating (Uo/U)	300/500 V
Oil Resistant	DIN EN 50290-2-22 (TM54)
Temperature Range	-20°C to 70°C(IEC/EN) -20°C to 105°C(UL) (occasional movement) -30°C to 80°C(IEC/EN) -30°C to 105°C(UL) (fixed installation)
Bending Radius	8 x OD (occasional movement) 4 x OD (fixed installation)
Other Properties	Good UV resistance, chemical resistance & flexibility
Availability	100m, 300m, Bulk

General Reference Standards

- DIN VDE 0295, IEC 60228, BS6360, UL1581
- DIN EN 50290-2-22 (TM54), DIN VDE 0207-363-3
- IEC 60227-3, EN 50525-2-31, HD 21.3, VDE 0281, UL 758
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS & REACH & CE Directives

H05V-K					
Part Number	Size (mm ²)	Standard & Approval	Stranding Conductor (mm)	Nominal Diameter (mm)	Voltage Rating
3150	0.5	H05V-K & UL AWM 1569	20/0.177	2.10	300/500V & 300V(UL)
3175	0.75	H05V-K & UL AWM 1569	30/0.177	2.30	300/500V & 300V(UL)
3110	1	H05V-K & UL AWM 1569	30/0.20	2.46	300/500V & 300V(UL)

H07V-K Hook-up Wire

450/750V PVC

Conductor Material	Stranded bare copper (DIN VDE 0295 Class 5)
Insulation Material	PVC (polyvinyl chloride).
Color	Black, Blue, Brown, Red, Green, White, Yellow, Yellow/Green
Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2, VW-1
Voltage Rating (Uo/U)	450/750 V
Oil Resistant	DIN EN 50290-2-22 (TM54)
Temperature Range	-20°C to 70°C(IEC/EN) -20°C to 105°C(UL) (occasional movement) -30°C to 80°C(IEC/EN) -30°C to 105°C(UL) (fixed installation)
Bending Radius	8 x OD (occasional movement) 4 x OD (fixed installation)
Other Properties	Good UV resistance, chemical resistance & flexibility
Availability	100m, 300m, Bulk

General Reference Standards

- DIN VDE 0295, IEC 60228, BS6360, UL1581
- DIN EN 50290-2-22 (TM54), DIN VDE 0207-363-3
- IEC 60227-3, EN 50525-2-31, HD 21.3, VDE 0281, UL 758
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS & REACH & CE Directives

H07V-K					
Part Number	Size (mm ²)	Standard & Approval	Stranding Conductor (mm)	Nominal Diameter (mm)	Voltage Rating
3111	1.5	H07V-K & UL AWM 10669	28/0.25	3.30	450/750V & 600V(UL)
3112	2.5	H07V-K & UL AWM 10669	47/0.25	3.70	450/750V & 600V(UL)
3113	4	H07V-K & UL AWM 10669	56/0.30	4.30	450/750V & 600V(UL)
3114	6	H07V-K & UL AWM 10669	84/0.30	4.90	450/750V & 600V(UL)
3115	10	H07V-K	80/0.39	6.20	450/750V
3116	16	H07V-K	126/0.40	7.50	450/750V
3117	25	H07V-K	196/0.40	9.10	450/750V
3118	35	H07V-K	260/0.40	10.10	450/750V
3119	50	H07V-K	371/0.40	12.30	450/750V
3120	70	H07V-K	330/0.50	14.20	450/750V
3121	95	H07V-K	427/0.50	17.00	450/750V
3122	120	H07V-K	551/0.50	18.90	450/750V
3123	150	H07V-K	684/0.50	21.0	450/750V
3124	185	H07V-K	19/49/0.50	24.70	450/750V

Cables you trust. Service you deserve.

Every application is critical and cable failure is not an option when the safety of equipment and personnel is paramount. Specify Alpha cable for rugged, reliable performance, since the integrity of your system is only as robust as the products you use.

Custom cable is standard.

Alpha Wire goes one step further: manufacturing custom cables to meet unique applications—offering specific conductor counts, shielding options, jacket materials, and versatile product designs. Our custom cable orders are often shipped in less than a week, once again giving you products with more convenience and less delay.

Service and support, second-to-none.

Selecting the correct cable for your critical application is essential to overall system reliability, performance, and safety. So we make it easy for you to select the right Alpha cable for your specific application. Our online resources include a wire and cable selection guide, technical information, full product catalog, and a distributor locator to make it easy to select and get the cable you need. Can't find what you're looking for? Design the cable to your specification. It's easy, just visit **www.alphawire.com**!

GLOBAL HEADQUARTERS
711 Lidgerwood Avenue
Elizabeth, NJ 07207-0711 USA
Toll Free: 1-800-52 ALPHA
Tel: 1-908-925-8000
Fax: 1-908-925-5411
E-mail: info@alphawire.com

ASIA PACIFIC
Room 1308 | Baohua Mansion
No 1211 Changde Road
Shanghai | China | 200060
Tel: +86-21-61498201 / 61498205
Fax: +86-21-61498001
E-mail: apac@alphawire.com

