



UL - Appliance Wire

Appliance Wire with UL approvals - 1000V

Construction

Flexible Class 5 fine wire stranding, PVC insulation, tinned copper conductor.

Temperature Rating

-40 to 105

Nominal Voltage

600/1000V

Test Voltage

2500V

	0.5	0.75	1	1.5	2.5	4	6	10	16
Earth	4160100	4160200	4160300	4160400	4160500	4160600	4160700	4160800	4160900
Black	4160101	4160201	4160301	4160401	4160501	4160601	4160701	4160801	4160901
Blue	4160102	4160202	4160302	4160402	4160502	4160602	4160702	4160802	4160902
Brown	4160103	4160203	4160303	4160403	4160503	4160603	4160703	4160803	4160903
Red	4160104	4160204	4160304	4160404	4160504	4160604	4160704	4160804	4160904
White	4160105	4160205	4160305	4160405	4160505	4160605	4160705	4160805	4160905
Grey	4160106	4160206	4160306	4160406	4160506	4160606	4160706	4160806	4160906
Purple	4160107	4160207	4160307	4160407	4160507	4160607	4160707		
Pink	4160108	4160208	4160308	4160408	4160508	4160608			
Orange	4160109	4160209	4160309	4160409	4160509	4160609	4160709	4160809	4160909
Yellow	4160110	4160210	4160310	4160410	4160510	4160610	4160710	4160810	4160910
Green	4160111	4160211	4160311	4160411	4160511	4160611	4160711	4160811	4160911
Dark Blue	4160114	4160214	4160314	4160414	4160514	4160614	4160714	4160814	4160914
Blue + White Stripe	4160126	4160226	4160326	4160426	4160526	4160626	4160726	4160826	
White + Blue Stripe	4160144	4160244	4160344	4160444	4160544	4160644	4160744	4160844	

Multi-Standard wiring cable UL(MTW)-CSA-HAR Style 1015

The “international” approved single core Style 1015



Application

- The approvals for several markets (“Multi-Standard”) mean that different national requirements can be fulfilled with only one product
- Complies with the European harmonisation standards (HAR), as well as the US and Canadian standards (UL, CSA) and can therefore be used in the most important global markets
- Allow international or export-oriented manufacturers of machinery, equipment and plants to work more efficiently and avoid acceptance problems with approval authorities / inspectors or foreign customers

Special feature

- AWM (Appliance Wiring Material) recognition
- Additional UL-MTW-listing
The MTW (Machine Tool Wire) listing extends the permissible area of application to the entire machine tool industry (not only in appliances)
- Simplified technical acceptance of your final product through use of a UL-listed product, since UL listed products are included in general standards such as National Electric Code and NFPA 79 in the USA
- These standards are available to any safety inspector

Advantage

- Economy in production is increased
- **The technical documentation expense is reduced**
- **Storage is made significantly easier**

Note

- Multi-Standard cables with mm² and AWG/MCM sizes normally have special conductor strands, which means that one of the specified conductor cross-sections works out greater than the other
- UL(MTW)-CSA-HAR Style 1015 as special version “untinned” available on request

Cable Make-up

- Stranded conductor of tinned copper wires in acc. with UL-CSA
- Fine wire in acc. with VDE 0295 Cl.5/IEC 60228 Cl. 5
- Special PVC compound insulation in acc. with IEC 60227 / VDE 0207, UL 1581 Class 12 and 43
- Oil resistant
- Flame-retardant and self extinguishing in acc. with IEC 60332.1/HD 405.2 and CSA FT1

Accessories

Conductor end sleeves XL see page 804
Cable Conduit Systems see page 689
Conductor end sleeves see page 799
Cable Marking see page 892

UL-CSA-HAR Style 1007+1569 without MTW listing

Technical Data

Approvals
UL: AWM Style 1007, 1569
CSA: TEW
HAR: H05V-K
(VDE 0281/HD21)

Specific insulation resistance
> 10 GOhm x cm

Conductor stranding
Fine wire (tinned) in acc. with:
VDE 0295 Cl. 5 /
IEC 60228 Cl. 5

Rated voltage
H05V-K: U₀/U: 300/500 V
UL + CSA: U: 300V

Test voltage
2500 V

Temperature range
Fixed installation:
HAR / IEC: -40°C to +70°C
UL (AWM): -40°C to +105°C

Part number Conductor cross-section in mm² Conductor cross-section in AWG Outer diameter mm approx. Copper weight kg/m Weight kg/km approx.

UL AWM Style 1007 + 1569, CSA TEW, H05V-K

Part number	Conductor cross-section in mm ²	Conductor cross-section in AWG	Outer diameter mm approx.	Copper weight kg/m	Weight kg/km approx.
41804..	0,5	22	2,2	4,8	8,6
41805..	0,75	20	2,4	7,2	11,2
41806..	1,0	18	2,5	9,6	13,6

Coils < 30 kg, above this automatically supplied as drums
Coils: 100 m / from 35 mm²: 50 m
Copper base: EUR 150 / 100 kg

Multi-Standard wiring cable UL(MTW)-CSA-HAR Style 1015

The "international" approved single core Style 1015



UL(MTW)-CSA-HAR Style 1015 with MTW listing

Technical Data

Approvals UL standard 1063 MTW, UL rec. AWM-Style 1015 CSA: TEW HAR: H07V-K, X07V-K (VDE 0281 / HD 21)	Conductor stranding Fine wire (tinned) in acc. with: VDE 0295 Cl. 5 / IEC 60228 Cl. 5	Rated voltage Acc. HAR: U_0/U : 450/750 V Acc. CSA: U: 600 V Acc. UL (AWM): U: 600 V Acc. UL (MTW): U: 600 V	Temperature range Fixed installation: HAR / IEC: -40°C to +70°C UL (AWM): -40°C to +105°C UL (MTW): -40°C to +90°C CSA (TEW): -40°C to +105°C
		Test voltage 2500 V	

Part number	Conductor cross-section (mm ²)	Conductor cross-section in AWG	Outer diameter mm approx.	Copper weight kg/m	Weight kg/km approx.
UL AWM Style 1015 + MTW, CSA TEW, H07V-K					
41601..*	0,5	22	2,5	4,8	10,0
41602..*	0,75	20	2,7	7,2	12,5
41603..*	1,0	18	2,9	9,6	16,0
41604..	1,5	16	3,1	14,4	20,0
41605..	2,5	14	3,7	24,0	31,0
41606..	4,0	12	4,4	38,4	45,0
41607..	6,0	10	4,9	58,0	63,0
41608..	10,0	8	6,8	96,0	120,0
41609..*	16,0	6	8,9	154,0	185,0
41610..	25,0	4	10,1	240,0	260,0
41611..	35,0	2	11,4	336,0	360,0
41612..*	50,0	1	14,0	480,0	535,0
41613..*	70,0	2/0	15,8	672,0	735,0
41614..	95,0	3/0	18,1	912,0	930,0
41615..	120,0	4/0	19,4	1152,0	1.160,0

Coils < 30 kg, above this automatically supplied as drums
 Coils: 100 m / from 35 mm²: 50 m
 Copper base: EUR 150 / 100 kg

UL(MTW)-CSA-HAR Style 1015 with MTW listing in one-way cardboards

Part number	Conductor cross-section (mm ²)	Conductor cross-section in AWG	Box capacity in m	Outer diameter mm approx.	Copper weight kg/km	Weight kg/box approx.
UL AWM Style 1015 + MTW, CSA TEW, H07V-K						
41601..K*	0,5	22	3000	2,5	4,8	32,2
41602..K*	0,75	20	2500	2,7	7,2	28,2
41603..K*	1,0	18	2000	2,9	9,6	34,2
41604..K	1,5	16	1500	3,1	14,4	32,2
41605..K	2,5	14	900	3,7	24,0	30,1
41606..K	4,0	12	600	4,4	38,4	29,2
41607..K	6,0	10	400	4,9	58,0	27,8

Please complete the part number with the following colour code numbers:

00 green/yellow	01 black
02 blue	03 brown
04 red	05 white
06 grey	07 violet
08 pink	09 orange
10 yellow**	11 green**
14 dark blue	26 blue/white**
44 white/blue**	

Additional colours available on request!

* In acc. with the HAR standard as X07V-K without "HAR" marking
 ** For these colours, there is no HAR approval from 1,5 mm²

Coils: 100 m / from 35 mm²: 50 m
 Coils < 30 kg, above this automatically supplied as drums
 Copper base: EUR 150 / 100 kg