MULTI-STANDARD SC 2.1

USA: UL-listed (MTW), Canada: CSA (TEW), Europe: <HAR> H07V-K (depending on cross s.), tin-coated strands

Lapp Kabel® MULTI-STANDARD SC 2.1, power and control cable, PVC single core for field wiring, UL MTW VW-1, UL AWM style 1015 600 V, CSA TEW FT1, HAR H07V-K

Info
The all-rounder for many markets

Oil-resistant

Benefits
For use in the most important global markets
Reduction in technical documentation
Easier storage; increases the cost-effectiveness of the production process
Works with "Conductor end sleeves XL, insulated"

Application range
Factory wiring
Field wiring
Internal wiring of devices
Control cabinet wiring

Product features
Flame-retardant according IEC 60332-1-2
Flame-retardant according to UL VW1/CSA FT1
Oil-resistant

Last Update (26.07.2018)
©2018 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

Downloaded from Arrow.com.

MULTI-STANDARD SC 2.1

Norm references / Approvals

Multi-standard cables have conductor strands with nominal sizes in mm² or AWG/kcmil. The master size is mentioned in the table below, while the equivalent size of the other system can be found in the Appendix T16 of this catalogue. For this related secondary size the cross-section of the conductor mostly works out to be greater than the specified nominal value.
Cable type certifications: <HAR> H07V-K acc. EN 50525-2-31, UL AWM style 1015 (by UL acc. UL standard UL 758, U.I. Lapp GmbH's UL AWM file number: E63634), (UL) MTW (by UL acc. UL standard UL 1063, U.I. Lapp GmbH's (UL) MTW file number: E198296), CSA TEW (by CSA acc. CSA standard CSA C22.2 No. 127, CSA class 5835-01)

Product Make-up

Fine-wire strand made of tinned-copper wires
Special PVC-based core insulation

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000993 ETIM 5.0 Class-Description: Single core cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000993 ETIM 6.0 Class-Description: Single core cable
Conductor stranding:	Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
Minimum bending radius:	OD ≤ 8 mm: 4 x OD*/2 x OD**; 8 < OD ≤ 12 mm: 5 x OD*/3 x OD**; OD > 12 mm: 6 x OD*/4 x OD**
Nominal voltage:	HAR / IEC: U0/U: 450/750 V; UL (AWM): U: 600 V; UL (MTW): U: 600 V; CSA (TEW): 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): up to +105 °C

Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Packaging size: Coil ≤ 30 kg, otherwise drum
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.
Non-harmonised, nominal cross-sections: 0.5 mm², 0.75 mm², 1 mm², 16 mm²
*for conventional use, **for careful bending; "OD" = outer diameter
The outer diameters stated in the part number table are maximum values.

©2018 Lapp Group - Technical changes reserved

Downloaded from Arrow.com.

Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Core colour	m/ring	m/box	Copper
4160100	0.5	2.7	green/yellow	100	-	4.8
4160111	0.5	2.7	green	100	-	4.8
4160103	0.5	2.7	brown	100	-	4.8
4160101	0.5	2.7	black	100	-	4.8
4160101K	0.5	2.7	black	-	3000	4.8
4160106	0.5	2.7	grey	100	-	4.8
4160106K	0.5	2.7	grey	-	3000	4.8
4160102	0.5	2.7	blue	100	-	4.8
4160102K	0.5	2.7	blue	-	3000	4.8
4160114	0.5	2.7	dark blue	100	-	4.8
4160114K	0.5	2.7	dark blue	-	3000	4.8
4160109	0.5	2.7	orange	100	-	4.8
4160109K	0.5	2.7	orange	-	3000	4.8
4160107	0.5	2.7	violet	100	-	4.8
4160110	0.5	2.7	yellow	100	-	4.8
4160105	0.5	2.7	white	100	-	4.8
4160104	0.5	2.7	red	100	-	4.8
4160104K	0.5	2.7	red	-	3000	4.8
4160126	0.5	2.7	blue/white	100	-	4.8
4160144K	0.5	2.7	white/blue	-	3000	4.8
4160200	0.75	2.9	green/yellow	100	-	7.2
4160203	0.75	2.9	brown	100	-	7.2
4160203K	0.75	2.9	brown	-	2500	7.2
4160201	0.75	2.9	black	100	-	7.2
4160206	0.75	2.9	grey	100	-	7.2
4160202	0.75	2.9	blue	100	-	7.2
4160202K	0.75	2.9	blue	-	2500	7.2
4160214	0.75	2.9	dark blue	100	-	7.2
4160214K	0.75	2.9	dark blue	-	2500	7.2
4160209	0.75	2.9	orange	100	-	7.2
4160209K	0.75	2.9	orange	-	2500	7.2
4160207	0.75	2.9	violet	100	-	7.2
4160210	0.75	2.9	yellow	100	-	7.2
4160205	0.75	2.9	white	100	-	7.2

Last Update (26.07.2018)
©2018 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

Downloaded from Arrow.com.

Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Core colour	m/ring	m/box	Copper
4160204	0.75	2.9	red	100	-	7.2
4160204K	0.75	2.9	red	-	2500	7.2
4160208	0.75	2.9	pink	100	-	7.2
4160226	0.75	2.9	blue/white	100	-	7.2
4160226K	0.75	2.9	blue/white	-	2500	7.2
4160244	0.75	2.9	white/blue	100	-	7.2
4160244K	0.75	2.9	white/blue	-	2500	7.2
4160300	1.0	3.1	green/yellow	100	-	9.6
4160300K	1.0	3.1	green/yellow	-	2000	9.6
4160311	1.0	3.1	green	100	-	9.6
4160303	1.0	3.1	brown	100	-	9.6
4160303K	1.0	3.1	brown	-	2000	9.6
4160301	1.0	3.1	black	100	-	9.6
4160301K	1.0	3.1	black	-	2000	9.6
4160306	1.0	3.1	grey	100	-	9.6
4160302	1.0	3.1	blue	100	-	9.6
4160302K	1.0	3.1	blue	-	2000	9.6
4160314	1.0	3.1	dark blue	100	-	9.6
4160314K	1.0	3.1	dark blue	-	2000	9.6
4160309	1.0	3.1	orange	100	-	9.6
4160309K	1.0	3.1	orange	-	2000	9.6
4160307	1.0	3.1	violet	100	-	9.6
4160310	1.0	3.1	yellow	100	-	9.6
4160305	1.0	3.1	white	100	-	9.6
4160305K	1.0	3.1	white	-	2000	9.6
4160304	1.0	3.1	red	100	-	9.6
4160304K	1.0	3.1	red	-	2000	9.6
4160308	1.0	3.1	pink	100	-	9.6
4160326	1.0	3.1	blue/white	100	-	9.6
4160326K	1.0	3.1	blue/white	-	2000	9.6
4160344	1.0	3.1	white/blue	100	-	9.6
4160344K	1.0	3.1	white/blue	-	2000	9.6
4160400	1.5	3.4	green/yellow	100	-	14.4
4160400K	1.5	3.4	green/yellow	-	1500	14.4

Last Update (26.07.2018)
©2018 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

Downloaded from Arrow.com.

Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Core colour	m/ring	m/box	Copper
4160411	1.5	3.4	green	100	-	14.4
4160403	1.5	3.4	brown	100	-	14.4
4160403K	1.5	3.4	brown	-	1500	14.4
4160401	1.5	3.4	black	100	-	14.4
4160401K	1.5	3.4	black	-	1500	14.4
4160406	1.5	3.4	grey	100	-	14.4
4160406K	1.5	3.4	grey	-	1500	14.4
4160402	1.5	3.4	blue	100	-	14.4
4160402K	1.5	3.4	blue	-	1500	14.4
4160414	1.5	3.4	dark blue	100	-	14.4
4160414K	1.5	3.4	dark blue	-	1500	14.4
4160409	1.5	3.4	orange	100	-	14.4
4160409K	1.5	3.4	orange	-	1500	14.4
4160407	1.5	3.4	violet	100	-	14.4
4160410	1.5	3.4	yellow	100	-	14.4
4160405	1.5	3.4	white	100	-	14.4
4160405K	1.5	3.4	white	-	1500	14.4
4160404	1.5	3.4	red	100	-	14.4
4160404K	1.5	3.4	red	-	1500	14.4
4160408	1.5	3.4	pink	100	-	14.4
4160426	1.5	3.4	blue/white	100	-	14.4
4160426K	1.5	3.4	blue/white	-	1500	14.4
4160444	1.5	3.4	white/blue	100	-	14.4
4160500	2.5	4	green/yellow	100	-	24
4160500K	2.5	4	green/yellow	-	900	24
4160511	2.5	4	green	100	-	24
4160503	2.5	4	brown	100	-	24
4160501	2.5	4	black	100	-	24
4160501K	2.5	4	black	-	900	24
4160506	2.5	4	grey	100	-	24
4160506K	2.5	4	grey	-	900	24
4160502	2.5	4	blue	100	-	24
4160502K	2.5	4	blue	-	900	24
4160514	2.5	4	dark blue	100	-	24

Last Update (26.07.2018)
©2018 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

Downloaded from Arrow.com.

Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Core colour	m/ring	m/box	Copper
4160514K	2.5	4	dark blue	-	900	24
4160509	2.5	4	orange	100	-	24
4160509K	2.5	4	orange	-	900	24
4160507	2.5	4	violet	100	-	24
4160510	2.5	4	yellow	100	-	24
4160505	2.5	4	white	100	-	24
4160505K	2.5	4	white	-	900	24
4160504	2.5	4	red	100	-	24
4160504K	2.5	4	red	-	900	24
4160526	2.5	4	blue/white	100	-	24
4160544	2.5	4	white/blue	100	-	24
4160544K	2.5	4	white/blue	-	900	24
4160600	4.0	4.6	green/yellow	100	-	38.4
4160600K	4.0	4.6	green/yellow	-	600	38.4
4160611	4.0	4.6	green	100	-	38.4
4160603	4.0	4.6	brown	100	-	38.4
4160601	4.0	4.6	black	100	-	38.4
4160601K	4.0	4.6	black	-	600	38.4
4160606	4.0	4.6	grey	100	-	38.4
4160602	4.0	4.6	blue	100	-	38.4
4160614	4.0	4.6	dark blue	100	-	38.4
4160609	4.0	4.6	orange	100	-	38.4
4160609K	4.0	4.6	orange	-	600	38.4
4160607	4.0	4.6	violet	100	-	38.4
4160610	4.0	4.6	yellow	100	-	38.4
4160610K	4.0	4.6	yellow	-	600	38.4
4160605	4.0	4.6	white	100	-	38.4
4160604	4.0	4.6	red	100	-	38.4
4160626	4.0	4.6	blue/white	100	-	38.4
4160644	4.0	4.6	white/blue	100	-	38.4
4160700	6.0	5.1	green/yellow	100	-	57.6
4160700K	6.0	5.1	green/yellow	-	400	57.6
4160711	6.0	5.1	green	100	-	57.6
4160703	6.0	5.1	brown	100	-	57.6

Last Update (26.07.2018)
©2018 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

Downloaded from Arrow.com.

Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Core colour	m/ring	m/box	Copper
4160701	6.0	5.1	black	100	-	57.6
4160701K	6.0	5.1	black	-	400	57.6
4160706	6.0	5.1	grey	100	-	57.6
4160702	6.0	5.1	blue	100	-	57.6
4160702K	6.0	5.1	blue	-	400	57.6
4160714	6.0	5.1	dark blue	100	-	57.6
4160714K	6.0	5.1	dark blue	-	400	57.6
4160709	6.0	5.1	orange	100	-	57.6
4160709K	6.0	5.1	orange	-	400	57.6
4160710	6.0	5.1	yellow	100	-	57.6
4160705	6.0	5.1	white	100	-	57.6
4160704	6.0	5.1	red	100	-	57.6
4160704K	6.0	5.1	red	-	400	57.6
4160726	6.0	5.1	blue/white	100	-	57.6
4160744	6.0	5.1	white/blue	100	-	57.6
4160800	10.0	6.8	green/yellow	100	-	96
4160811	10.0	6.8	green	100	-	96
4160803	10.0	6.8	brown	100	-	96
4160801	10.0	6.8	black	100	-	96
4160806	10.0	6.8	grey	100	-	96
4160802	10.0	6.8	blue	100	-	96
4160814	10.0	6.8	dark blue	100	-	96
4160809	10.0	6.8	orange	100	-	96
4160810	10.0	6.8	yellow	100	-	96
4160805	10.0	6.8	white	100	-	96
4160804	10.0	6.8	red	100	-	96
4160826	10.0	6.8	blue/white	100	-	96
4160844	10.0	6.8	white/blue	100	-	96
4160900	16.0	9	green/yellow	100	-	153.6
4160911	16.0	9	green	100	-	153.6
4160903	16.0	9	brown	100	-	153.6
4160901	16.0	9	black	100	-	153.6
4160906	16.0	9	grey	100	-	153.6
4160902	16.0	9	blue	100	-	153.6

Last Update (26.07.2018)
©2018 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

Downloaded from Arrow.com.

Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Core colour	m/ring	m/box	Copper
4160914	16.0	9	dark blue	100	-	153.6
4160909	16.0	9	orange	100	-	153.6
4160910	16.0	9	yellow	100	-	153.6
4160905	16.0	9	white	100	-	153.6
4160904	16.0	9	red	100	-	153.6
4161000	25.0	10.2	green/yellow	100	-	240
4161011	25.0	10.2	green	100	-	240
4161003	25.0	10.2	brown	100	-	240
4161001	25.0	10.2	black	100	-	240
4161006	25.0	10.2	grey	100	-	240
4161002	25.0	10.2	blue	100	-	240
4161009	25.0	10.2	orange	100	-	240
4161010	25.0	10.2	yellow	100	-	240
4161004	25.0	10.2	red	100	-	240
4161100	35.0	11.7	green/yellow	-	-	336
4161111	35.0	11.7	green	-	-	336
4161101	35.0	11.7	black	-	-	336
4161102	35.0	11.7	blue	-	-	336
4161104	35.0	11.7	red	-	-	336
4161200	50.0	13.9	green/yellow	-	-	480
4161211	50.0	13.9	green	-	-	480
4161201	50.0	13.9	black	-	-	480
4161202	50.0	13.9	blue	-	-	480
4161300	70.0	16	green/yellow	-	-	672
4161301	70.0	16	black	-	-	672
4161400	95.0	18.2	green/yellow	-	-	912
4161401	95.0	18.2	black	-	-	912
4161402	95.0	18.2	blue	-	-	912
4161500	120.0	19.8	green/yellow	-	-	1152
4161501	120.0	19.8	black	-	-	1152
4161502	120.0	19.8	blue	-	-	1152

Last Update (26.07.2018)
©2018 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

Downloaded from Arrow.com.