


U.I. Lapp GmbH	PRODUCT INFORMATION	
	NYY-J, NYY-O	12.09.2012

Fixed installation, direct burial; PVC cable with different application areas



Info

1. re = round conductor, single-wire; 2. rm = round conductor, multi-wire; 3. sm = sector-shaped conductor

Application range

Power and control cable for fixed installation in the following applications:

For indoor and outdoor use

Burial without additional, suitable underground protection according to VDE standard HD 603/VDE 0276-603 - Part 3-G (point 4) governing PVC cables for direct burial: normal minimum installation depth 0.6 m, but at least 0.8 m under roads

In concrete with a temperature below the maximum cable operating temperature of +70 °C according to the VDE standard HD 603/VDE 0276-603 - Part 3-G (point 4) governing PVC cables for direct burial

In water: no longer than 2 weeks at a time, maximum submersion depth 10 metres, only in static water/bodies of water without shipping traffic

Design

Bare copper wire conductor

Abbreviations "re", "rm", "se", "sm": r = round conductor form; s = sectorial conductor form; e = single-wire conductor (wire = conductor)/braided conductor class 1 according to IEC 60228/VDE 0295 for fixed, static applications; m = multi-wire conductor/braided conductor class 2 according to IEC 60228/VDE 0295 for fixed, static applications, but with a slightly lower minimum bending factor

Core insulation: Based on PVC

Filling compound over the core assembly


PVC-based outer sheath

Product features

Flame-retardant according to IEC 60332-1-2

Current rating according to HD 603/VDE 0276-603, Part 3-G, Table 14 (buried at +20 °C ground temperature according to HD 603/VDE 0276-603, Part 3-G, point 5) for routing underground and Table 15 (in the air at an air temperature of +30 °C according to HD 603/VDE 0276-603, Part 3-G, point 5) when used outdoors; but always taking into consideration corrections/reductions to the current rating that may be necessary according to VDE 0298-4, and VDE 0298-4 (also refer to the catalogue appendix T12) for installation in and on buildings

Product Management	Document: LAPP_PRO190EN.pdf	1 / 5
--------------------	-----------------------------	-------

U.I. Lapp GmbH	PRODUCT INFORMATION	
	NY-Y-J, NY-Y-O	12.09.2012

Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: excluding copper. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Photographs are not to scale and do not represent detailed images of the respective products.

Technical Data

Core identification code:	Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9 From 6 cores: black with white numbers
Approvals (Norm references):	HD 603/VDE 0276-603 (for 1 to 5 cores) HD 627/VDE 0276-627 (as from 7 cores)
Conductor stranding:	Single or multi-wire
Minimum bending radius:	Single-core: 15 x outer diameter Multi-core: 12 x outer diameter
Nominal voltage:	U ₀ /U: 0.6/1.0 kV
Test voltage:	4000 V
Temperature range:	During installation: -5°C to +50°C Fixed installation: -40°C to +70°C

Product Management	Document: LAPP_PRO190EN.pdf	2 / 5
--------------------	-----------------------------	-------



NYY-J, NYY-O

12.09.2012

Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
NYY-J				
1550030	1 x 25rm	13.0	240.0	380
1550038	1 x 35rm	14.0	336.0	447
1550032	1 x 50rm	15.0	480.0	650
1550033	1 x 70rm	17.0	672.0	864
1550037	1 x 185rm	26.0	1776.0	2000
15500013	3 x 1,5re	12.0	43.0	223
15500023	4 x 1,5re	13.0	58.0	256
15500033	5 x 1,5re	14.0	72.0	293
1550004	7 x 1,5re	15.0	101.0	360
1550005	10 x 1,5re	18.0	144.0	520
1550006	12 x 1,5re	19.0	173.0	560
1550084	14 x 1,5re	20.0	202.0	620
1550007	16 x 1,5re	21.0	230.0	680
1550008	19 x 1,5re	22.0	274.0	760
1550009	24 x 1,5re	24.0	346.0	900
1550086	30 x 1,5re	26.0	432.0	1100
15500103	3 x 2,5re	13.0	72.0	272
15500113	4 x 2,5re	14.0	96.0	316
15500123	5 x 2,5re	15.0	120.0	323
1550013	7 x 2,5re	16.0	168.0	450
1550090	10 x 2,5re	20.0	240.0	630
1550091	12 x 2,5re	20.0	288.0	680
1550092	14 x 2,5re	21.0	336.0	790
1550094	19 x 2,5re	23.0	456.0	990
1550096	24 x 2,5re	26.0	576.0	1300
1550097	30 x 2,5re	28.0	720.0	1400
15500583	3 x 4re	15.0	115.0	373
15500203	4 x 4re	16.0	154.0	439
15500263	5 x 4re	17.0	192.0	510
15500593	3 x 6re	16.0	173.0	466
15500213	4 x 6re	17.0	230.0	547
15500273	5 x 6re	19.0	288.0	640
15500603	3 x 10re	18.0	288.0	629



NYY-J, NYY-O

12.09.2012

Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
15500223	4 x 10re	19.0	384.0	743
15500823	5 x 10re	21.0	480.0	899
15500613	3 x 16re	20.0	461.0	850
15500233	4 x 16re	22.0	614.0	1039
15500833	5 x 16re	23.0	768.0	1240
15500713	3 x 25rm/16re	25.0	874.0	1595
15500243	4 x 25rm	27.0	960.0	1620
15500153	3 x 35sm/16re	27.0	1162.0	1718
15500753	4 x 35sm	27.0	1344.0	1916
15500163	3 x 50sm/25rm	31.0	1680.0	2383
15500253	4 x 50sm	31.0	1920.0	2639
15500173	3 x 70sm/35sm	33.0	2352.0	3196
15500763	4 x 70sm	35.0	2688.0	3576
15500183	3 x 95sm/50sm	38.0	3216.0	4271
15500773	4 x 95sm	40.0	3648.0	4746
15500723	3 x 120sm/70sm	41.0	4128.0	5281
15500783	4 x 120sm	43.0	4608.0	5813
15500733	3 x 150sm/70sm	46.0	4992.0	6408
15500793	4 x 150sm	48.0	5760.0	7263
15500743	3 x 185sm/95sm	50.0	6240.0	7909
15500803	4 x 185sm	53.0	7104.0	8905
15500193	3 x 240sm/120sm	57.0	8064.0	10162
15500813	4 x 240sm	60.0	9216.0	11430
NYY-O				
1550205	1 x 10re	10.0	96.0	176
1550206	1 x 16re	11.0	154.0	239
1550207	1 x 25rm	13.0	240.0	380
1550208	1 x 35rm	14.0	336.0	447
1550209	1 x 50rm	15.0	480.0	650
1550210	1 x 70rm	17.0	672.0	864
1550211	1 x 95rm	19.0	912.0	1132
1550212	1 x 120rm	21.0	1152.0	1405
1550213	1 x 150rm	22.0	1440.0	1710
1550214	1 x 185rm	24.0	1776.0	2086



NYY-J, NYY-O

12.09.2012

Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
1550215	1 x 240rm	27.0	2304.0	2669
1550216	1 x 300rm	30.0	2880.0	3305
1550218	1 x 500rm	39.0	4800.0	5400
15502003	2 x 1,5re	11.0	29.0	210
15502193	2 x 2,5re	12.0	48.0	250
15502203	2 x 4re	14.0	77.0	360
15502213	2 x 6re	15.0	115.0	400
15502223	2 x 10re	17.0	192.0	500
15502533	4 x 16re	22.0	614.0	1039
15502543	4 x 25rm	27.0	960.0	1620
15502563	4 x 50sm	31.0	1920.0	2639
15502573	4 x 70sm	35.0	2688.0	3576
15502583	4 x 95sm	40.0	3648.0	4746