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

Suitable for outdoor use

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

Product Make-up

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

Norm references / Approvals

HD 603/VDE 0276-603 (for 1 to 5 cores)
HD 627/VDE 0276-627 (as from 7 cores)

Product features

Flame-retardant according 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

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 catalogue appendix T17 for the definition and calculation of copper-related surcharges.Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengthsPackaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drumPlease 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
Classification:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Low voltage power cable
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

Part number	Number of cores and mm² 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	25.0	1776.0	2080
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

Part number	Number of cores and mm² 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	25.0	1776.0	2080

Part number	Number of cores and mm² 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