

Comparison of harmonized cables with IEC, DIN VDE and HD

PVC-insulated cables according to DIN VDE 0281 in comparison with IEC and HD

Designation	accord. to VDE part...	short designation new	short designation old VDE 0250	nominal cross-section (mm ²)	nominal voltage U ₀ /U (V)	according to HD	comparative design to IEC
PVC-wiring cables single wire fine wires	0281 part 3 0281 part 3	H 05V-U H 05V-K	NYFA, NYA NYFAF, NYAF	0,5 to 1,0	300/500	HD 21.3 S3	227 IEC 01 227 IEC 01
PVC-insulated cables single wire multi-stranded wires fine wires	0281 part 3 0281 part 3 0281 part 3	H 07V-U H 07V-R H 07V-K	NYA NYA NYAF	1,5 to 10 1,5 to 400 1,5 to 240	450/750	HD 21.3 S3	227 IEC 01 227 IEC 01 227 IEC 02
Light PVC-Twin cables	0281 part 5	H 03VH-Y	NLYZ	0,1	300/300	HD 21.5 S3	227 IEC 41
Twin cables	0281 part 5	H 03VH-H	NYZ	0,5+0,75	300/300	HD 21.5 S3	227 IEC 42
PVC-sheathed cables 03VV-F round flat	0281 part 5 0281 part 5	H 03VV-F H 03VVH2-F	NYLHY rund NYLHY flach	0,5+0,75 0,5+0,75	300/300	HD 21.5 S3	227 IEC 43 227 IEC 43
PVC-sheathed cables 05 VV-F round flat	0281 part 5 0281 part 5	H 05VV-F H 05VVH2-F	NYMHY rund NYMHY rund NYMHY flach	0,75 to 2,5 1 to 2,5 0,75	300/500 300/500	HD 21.5 S3	227 IEC 53 227 IEC 53
PVC-Flat-cable 05VV-H6 PVC-Flat-cable 07VV-H6	0281 part 403 0281 part 404	H 05VVH6-F H 07VVH6-F	NYFLY NYFLY	0,75 to 1 1,5 to 25	300/500 450/750	—	— —

Rubber insulated power cables according to DIN VDE 0282 in comparison with IEC and HD

Designation	according to VDE	short designation new	short designation old VDE 0250	nominal cross-section (mm ²)	nominal voltage U ₀ /U (V)	according to HD	comparative design to IEC
Heat-resistant rubber- insulated cable H 07G	0282 part 7 0282 part 7	H 07G-U H 07G-K	N4GA N4GAF	1,5+2,5 0,5 to 95	450/750	HD 22.7 S2	— —
Heat-resistant silicone- rubber cable	0282 part 3	H 05SJ-K	N2GAFU	0,5 to 95	300/500	HD 22.3 S2	245 IEC 03
Braided flexible cord	0282 part 4	H 03RT-F	NSA	0,75 to 1,5	300/500	HD 22.4 S3	245 IEC 51
Rubber sheathed flexible cord 05RR	0282 part 4	H 05RR-F	NLH, NMH	0,75 to 2,5	300/500	HD 22.4 S3	245 IEC 53
Polychloroprene sheathed flexible cable 05RN	0282 part 4	H 05RN-F	NYMHöu NYMHöu NYMHöu	0,75+1 0,75+1 0,75	300/500	HD 22.4 S3	245 IEC 57 245 IEC 57 245 IEC 57
Polychloroprene sheathed flexible cable 07RN	0282 part 4	H 07RN-F	NMHöu NSHöu	1,5 to 500 1 to 25 1 to 300 1,5+2,5	450/750	HD 22.4 S3	245 IEC 65 245 IEC 66
Rubber insulated lift cable with textile braid 05RT2D5 Rubber insulated lift cable with polychloroprene sheath 05RND5	0282 part 807 0282 part 807	H 05RT2D5-F H 05RND5-F	NFLG NFLGC	0,75 0,75	300/500 300/500	— —	— —
Rubber insulated lift cable with textile braid 07RT2D5 Rubber insulated lift cable with polychloroprene sheath 07RND5	0282 part 808 0282 part 808	H 07RT2D5-F H 07RND5-F	NFLG NFLGC	1 1	450/750 450/750	— —	— —

IEC-definition

IEC 227: Polyvinylchloride insulated flexible cables and cords with circular conductors and a rated voltage not exceeding 750 V
IEC 245: Rubber insulated flexible cables and cords with circular conductors and a rated voltage not exceeding 750 V