

# 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 <sup>2</sup> )	nominal voltage U <sub>0</sub> /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 <sup>2</sup> )	nominal voltage U <sub>0</sub> /U (V)	according to HD	comparative design to IEC
Heat-resistant rubberinsulated 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 siliconerubber 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	0282 part 807	H 05RT2D5-F	NFLG	0,75	300/500	–	–
Rubber insulated lift cable with polychloroprene sheath 05RND5	0282 part 807	H 05RND5-F	NFLGC	0,75	300/500	–	–
Rubber insulated lift cable with textile braid 07RT2D5	0282 part 808	H 07RT2D5-F	NFLG	1	450/750	–	–
Rubber insulated lift cable with polychloroprene sheath 07RND5	0282 part 808	H 07RND5-F	NFLGC	1	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