Power cables acc. to VDE 0250 123456

1. Relationship to Standards

N according to VDE (N)/X with reference to VDE

2. Insulating materials

Υ	PVC
4Y	polyamide
5Y	PTFE (teflon)
6Y	FEP (teflon)
9Y	polypropylen
11Y	polyurethan (PUR)
2X	XLPE
G	elastomer
2G	silicon
3G	EPR-rubber
4G	EVA
5G	polychloroprene
HX	LS0H

3. Cable description

o. Cable description				
Α	single-core			
D	solid wire			
AF	single-core, fine strande			
F	flexible wire for fittings			
L	fluorescent tube cable			
LH	connecting cable for light mechanical load			
MH	connecting cable for			
	middle mechanical load			
SH	connecting cable for,			
	heavy mechanical load			
SSH	connecting cable for			
	special mechanical load			
SL	control/welding cable			
S	control cable			
LS	light control cable			
FL	flat cable			
Si	silicon cable			
Z	twin cable			
GL	glass fibre			
Li	stranded wires acc to. VDE 812			
LiF	fine stranded wires			

4. Special constructions

ö oil-resistant	
u flame resistant	
w heat-/weather resista	16
FE fire resistant	
C screen	
S steel wire armouring	

acc. to VDE 812

5. Sheathing materials l see 2.insulation materials Polyurethan

6. Protective conductor

with green/yellow core without green/yellow core

7. Number of cores

8. Cross-section of conductor

Harmonized cables acc. to VDE 0281/0282

	[Ι	Ι	Ι	Ι	
1234	_	5	6	7	8	9

1. Relationship to Standards

Н	Harmonized type (HAR)
Α	authorised national
	standards

2 Nominal voltage

2. Nominal vollage				
01	100 V			
03	300/300 V			
05	300/500 V			
07	450/750 V			
11	600/1000 V			

3. Insulating materials			
PVC			
PVC (90 oC)			
PVC cold-resistant			
EPR-rubber (90 °C)			
EVA			
PE			
natural or synthetic rubb			
silicon rubber			

LSOH -compound

XLPE

4. Sh	eathing materials
V	PVC
V2	PVC (90 oC)
V3	PVC cold-resistant
V4	PVC cross-linked
V5	PVC oil-resistant
R	natural or synthetic rubbe
Ν	chloroprene rubber
N2	chloroprene rubber for welding cables
N4	chloroprene rubber heat- resistant
NΙΩ	chloropropo rubbor

114	chloroprene rubber
	resistant
N8	chloroprene rubber

INO	critor oprene i ubbei
	(water-resistant)
J	glass fibre braid
Τ	textil braid
T/	Annually account and the same

T6	textil over each core
Q	polyurethan (PUR)

	1 /
Q4	polyamide
	1 /
7	1 COLL

Z LSOH -compound

5. Special constructions

С	concentric copper
condu	uctor
C4	copper braided screen
Н	flat , divisible cords
H2	flat , non divisible cords
H6	flat , non divisible cords
	for elevators
H7	two-layer insulating jacke
ЦΩ	holical cord

	Н8	helical cord
(6. Co	nductor form
ı	IJ	round, solid
-	R	round, stranded
I	K	fine stranded,
		(fixed installation)
-	F	fine stranded (flexibel cords
-	Н	fine stranded (highly fexible)
١	Y	tensil conductor
1	D	fine stranded for welding cables
-	Ε	fine stranded for welding

7. Number of cores

8. Protective conductor

without green/yellow core with green/yellow core

cables (highly fexible)

9. Cross-section of conductor

Telecommunication cables acc. to VDE 0815/16

<u> </u>	- 🔲		$X \square $		
1 2	3 4 5	6	7	8	9 10

1. Relationship to Standards

Α	outdoor cable
G	mining cable
J	installation cable
L	equipment wire
S	switch cable
Li	equipment wire with fine stranded conductor
RD	rhenomatic-cable
RF	instrumentation cable

2. Additional specifications

В	lightning protection
J	Indukction protection
Е	Industry-electronics

3. Insulating materials		
Υ	PVC	
2Y	PE	
02Y	cell-PE	
02YS	foam-Skin	
5Y	PTFE (teflon)	
6Y	FEP (teflon)	
7Y	ETFE (teflon)	
Р	paper	
4 Special construction		

Р	paper		
4. Special construction			
F	petrol jelly filler		
L	aluminium sheath		
LD	corrugated Alsheath		
(L)	laminated aluminium sheath		
С	copper braided screen		
(St)	screen of plastic coated Al-foil		
(K)	copper tape screen		
(B)	amouring		
(Z)	steel wire amouring		
(Zg)	strain-bearing element with		
	glass yarn bundles		
(7N)	strain-hearing element non		

metalic W corrugated steel sheath

М	lead sheath
Mz	special lead sheath
b	amouring
С	jute jacket+ bituminous
	compund

compund with embedded tape

5. Sheathing materials

see 3.insulation materials

6. Number of elements

number of stranding elements

7. Stranding elements

1	single core
2	pair
4	quat

8. Conductor diameter

9. Typ	of stranding
F	star quad (railway)
St	star quad with phantom circiut (long distance)
St I	star quad (long distance
St III	star quad (subscriber line
TF	star quad for carrier frequenycy
PiMF	pair in metal foil
DIMF	triple in metal foil
ViMF	quad in metal foil
10. St	randing layout

stranding in layer Bd stranding in unit

Power cables acc. to VDE 0276

	$\square X$	
1 2 3 4 5 6 7 8 9 10	11	12

1. Relationship to Standards

Ν	according to VDE
(N)	with reference to VDE

2 Conductor

	oonaacto.
-	copper
Α	aluminium

3. Insulating materials		
1	PVC	
2Y	PE	
2X	XLPE	
+	LSOH compound	

4. Concentric conductor	
С	Concentric copper
	conductor
CW	Concentric copper
	conductor reversing lay
up	

5. Screen

0. 50.0011		
S	common copper shield	
SE	individually screened	
cores		

6. Metal sheath

lead

7. Inner protection or plastic sheath

see 3.insulation materials

o. Al illoui ilig		
F	flat steel wire	
R	round steel wire	
G	steel tape	

9. Outer sheath

see 3.insulation materials

10. Protective conductor

-J	with green/yellow core
-0	without green/yellow core

11. Number of cores

12. Conductor form

RE	round, solid
RM	round, stranded
SE	sector shaped, solid
SM	sector shaped, stranded