



# Vogt Verbindungstechnik

## Kupfer-Ader-Endhülsen ohne Isolation

DIN 46228 Teil 1, ausgenommen\*

## Embouts de fil en cuivre sans isolation

DIN 46228 partie 1, \*excepté

## Uninsulated copper end-sleeves

DIN 46228 part 1, \*excepted

Werkstoff:  
E-CU = Elektrolytkupfer

Matière:  
E-CU = cuivre électrolytique

Material:  
E-CU = electrolytic copper

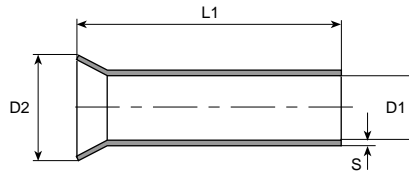
Oberflächenbehandlung: Code  
bl = blank (0)  
ag = versilbert (1)  
sn = verzinkt (7)

Traitements de surface: Code  
bl = brut (0)  
ag = argenté (1)  
sn = étamé (7)

Surface-plating: Code  
bl = clean (0)  
ag = silver-plated (1)  
sn = tin-plated (7)

Bestellbeispiel  
Exemple de commande:  
Example of order:

**440005.47**  
(4400/05 CU sn)



mm <sup>2</sup> (AWG)	Artikel-Nr. Numéro d'article Part-No.	DIN 46 228/1	øD1 mm	øD2 mm	L1 mm	S mm	Stand.- Packg.	Werkzeuge Outils Tools
<b>0.1-0.3</b> (26-22)	<b>440005.4( )</b>	*	0.8	1.7	5	0.15	5000	<b>3984H/3997</b>
	<b>440007.4( )</b>	*	0.8	1.7	7	0.15	5000	<b>4517 / 4529</b>
<b>0.5</b> (22)	<b>440106.4( )</b>	0.5-6	1	2.1	6	0.15	5000	<b>3984H/3997</b>
	<b>440108.4( )</b>	*	1	2.1	8	0.15	5000	<b>4518 / 4527</b>
	<b>440110.4( )</b>	0.5-10	1	2.1	10	0.15	5000	<b>4529 / 4530</b>
	<b>440112.4( )</b>	*	1	2.1	12	0.15	5000	<b>4531 / 4536</b>
<b>0.75</b> (20)	<b>440206.4( )</b>	0.75-6	1.2	2.3	6	0.15	5000	<b>3984H/3997</b> <b>4518 / 4520</b> <b>4521 / 4523</b> <b>4524 / 4525</b> <b>4527 / 4528</b> <b>4529 / 4530</b> <b>4531 / 4534</b> <b>4536</b>
	<b>440208.4( )</b>	*	1.2	2.3	8	0.15	5000	
	<b>440210.4( )</b>	0.75-10	1.2	2.3	10	0.15	5000	
	<b>440212.4( )</b>	*	1.2	2.3	12	0.15	5000	
	<b>440220.4( )</b>	*	1.2	2.3	20	0.15	2000	
	<b>1</b> (18)	<b>440306.4( )</b>	1-6	1.4	2.5	6	0.15	
<b>440308.4( )</b>	*	1.4	2.5	8	0.15	5000		
<b>440310.4( )</b>	1-10	1.4	2.5	10	0.15	5000		
<b>440312.4( )</b>	*	1.4	2.5	12	0.15	5000		
<b>440320.4( )</b>	*	1.4	2.5	20	0.15	2000		
<b>1.5</b> (16)	<b>440406.4( )</b>	*	1.7	2.8	6	0.15	5000	<b>3984H/3997</b> <b>4518 / 4519</b> <b>4520 / 4521</b> <b>4523 / 4524</b> <b>4525 / 4527</b> <b>4528 / 4529</b> <b>4530 / 4531</b> <b>4534 / 4536</b>
	<b>440407.4( )</b>	1.5-7	1.7	2.8	7	0.15	5000	
	<b>440408.4( )</b>	*	1.7	2.8	8	0.15	5000	
	<b>440410.4( )</b>	1.5-10	1.7	2.8	10	0.15	5000	
	<b>440412.4( )</b>	1.5-12	1.7	2.8	12	0.15	5000	
	<b>440415.4( )</b>	*	1.7	2.8	15	0.15	5000	
	<b>440418.4( )</b>	1.5-18	1.7	2.8	18	0.15	5000	
	<b>440420.4( )</b>	*	1.7	2.8	20	0.15	2000	
<b>2.5</b> (14)	<b>440506.4( )</b>	*	2.2	3.4	6	0.15	5000	<b>4525 / 4527</b> <b>4528 / 4529</b> <b>4530 / 4531</b> <b>4534 / 4536</b>
	<b>440507.4( )</b>	2.5-7	2.2	3.4	7	0.15	5000	
	<b>440508.4( )</b>	*	2.2	3.4	8	0.15	5000	
	<b>440510.4( )</b>	2.5-10	2.2	3.4	10	0.15	2000	
	<b>440512.4( )</b>	2.5-12	2.2	3.4	12	0.15	2000	
	<b>440515.4( )</b>	*	2.2	3.4	15	0.15	2000	
	<b>440518.4( )</b>	2.5-18	2.2	3.4	18	0.15	2000	
	<b>440520.4( )</b>	*	2.2	3.4	20	0.15	2000	
	<b>440530.4( )</b>	*	2.2	3.4	30	0.15	2000	
	<b>4</b> (12)	<b>440608.4( )</b>	*	2.8	4	8	0.2	
<b>440609.4( )</b>		4-9	2.8	4	9	0.2	2000	
<b>440610.4( )</b>		*	2.8	4	10	0.2	2000	
<b>440612.4( )</b>		4-12	2.8	4	12	0.2	2000	
<b>440615.4( )</b>		4-15	2.8	4	15	0.2	2000	
<b>440618.4( )</b>		4-18	2.8	4	18	0.2	2000	
<b>440620.4( )</b>		*	2.8	4	20	0.2	1000	
<b>440630.4( )</b>		*	2.8	4	30	0.2	1000	

mm <sup>2</sup> (AWG)	Artikel-Nr. Numéro d'article Part-No.	DIN 46 228/1	øD1 mm	øD2 mm	L1 mm	S mm	Stand.- Packg.	Werkzeuge Outils Tools
<b>6</b> (10)	<b>440710.4( )</b>	6-10	3.5	4.7	10	0.2	1000	<b>3984J/3997</b> <b>4519 / 4520</b> <b>4521 / 4523</b> <b>4526 / 4528</b> <b>4529 / 4531</b> <b>4534 / 4536</b>
	<b>440712.4( )</b>	6-12	3.5	4.7	12	0.2	1000	
	<b>440715.4( )</b>	6-15	3.5	4.7	15	0.2	1000	
	<b>440718.4( )</b>	6-18	3.5	4.7	18	0.2	1000	
	<b>440720.4( )</b>	*	3.5	4.7	20	0.2	1000	
	<b>440725.4( )</b>	*	3.5	4.7	25	0.2	1000	
	<b>440730.4( )</b>	*	3.5	4.7	30	0.2	1000	
<b>10</b> (8)	<b>440812.4( )</b>	10-12	4.5	5.8	12	0.2	1000	<b>3984J/3997</b> <b>4520 / 4521</b> <b>4522 / 4526</b> <b>4532</b>
	<b>440815.4( )</b>	10-15	4.5	5.8	15	0.2	1000	
	<b>440818.4( )</b>	10-18	4.5	5.8	18	0.2	1000	
	<b>440820.4( )</b>	*	4.5	5.8	20	0.2	1000	
	<b>440825.4( )</b>	*	4.5	5.8	25	0.2	1000	
<b>16</b> (6)	<b>440912.4( )</b>	16-12	5.8	7.5	12	0.2	1000	<b>3984J/3997</b> <b>4520 / 4522</b> <b>4526 / 4532</b>
	<b>440915.4( )</b>	16-15	5.8	7.5	15	0.2	1000	
	<b>440918.4( )</b>	16-18	5.8	7.5	18	0.2	1000	
	<b>440920.4( )</b>	*	5.8	7.5	20	0.2	1000	
	<b>440925.4( )</b>	16-25	5.8	7.5	25	0.2	1000	
	<b>440930.4( )</b>	*	5.8	7.5	30	0.2	1000	
	<b>440932.4( )</b>	16-32	5.8	7.5	32	0.2	1000	
<b>25</b> (4)	<b>441012.4( )</b>	*	7.3	9.5	12	0.2	1000	<b>4522 / 4532</b> <b>4533 / 4538</b> <b>4539</b>
	<b>441015.4( )</b>	25-15	7.3	9.5	15	0.2	1000	
	<b>441018.4( )</b>	25-18	7.3	9.5	18	0.2	1000	
	<b>441020.4( )</b>	*	7.3	9.5	20	0.2	1000	
	<b>441025.4( )</b>	25-25	7.3	9.5	25	0.2	1000	
	<b>441028.4( )</b>	*	7.3	9.5	28	0.2	1000	
<b>35</b> (2)	<b>441112.4( )</b>	*	8.3	11	12	0.2	500	<b>4522 / 4533</b> <b>4538</b>
	<b>441115.4( )</b>	*	8.3	11	15	0.2	500	
	<b>441118.4( )</b>	35-18	8.3	11	18	0.2	500	
	<b>441120.4( )</b>	*	8.3	11	20	0.2	500	
	<b>441125.4( )</b>	35-25	8.3	11	25	0.2	500	
	<b>441130.4( )</b>	*	8.3	11	30	0.2	500	
	<b>441132.4( )</b>	35-32	8.3	11	32	0.2	500	
<b>50</b> (1)	<b>441218.4( )</b>	50-18	10.3	13	18	0.3	500	<b>4533 / 4539</b>
	<b>441220.4( )</b>	*	10.3	13	20	0.3	500	
	<b>441222.4( )</b>	*	10.3	13	22	0.3	500	
	<b>441225.4( )</b>	50-25	10.3	13	25	0.3	500	
	<b>441230.4( )</b>	*	10.3	13	30	0.3	500	
	<b>441232.4( )</b>	50-32	10.3	13	32	0.3	500	
<b>70</b> (2/0)	<b>441322.4( )</b>	*	12.5	15	22	0.4	100	<b>4537</b>
	<b>441325.4( )</b>	*	12.5	15	25	0.4	100	
	<b>441332.4( )</b>	*	12.5	15	32	0.4	100	
<b>95</b> (3/0)	<b>441425.4( )</b>	*	14.5	17	25	0.4	100	
	<b>441432.4( )</b>	*	14.5	17	32	0.4	100	



## Messing-Ader-Endhülsen ohne Isolation

## Embouts de fil en laiton sans isolation

## Uninsulated brass end-sleeves

Werkstoff:  
MS = Messing

Matière:  
MS = laiton

Material:  
MS = brass

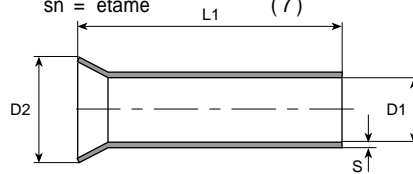
Oberflächenbehandlung: Code  
bl = blank (0)  
ag = versilbert (1)  
ni = vernickelt (5)  
sn = verzinkt (7)

Traitements de surface: Code  
bl = brut (0)  
ag = argenté (1)  
ni = nickelé (5)  
sn = étamé (7)

Surface-plating: Code  
bl = clean (0)  
ag = silver-plated (1)  
ni = nickel-plated (5)  
sn = tin-plated (7)

**Bestellbeispiel**  
**Exemple de commande:**  
**Example of order:**

**450006.67**  
(4500/06 MS sn)



mm <sup>2</sup> (AWG)	Artikel-Nr. Numéro d'article Part-No.	øD1 mm	øD2 mm	L1 mm	S mm	Stand- Packg.	Werkzeuge Outils Tools
<b>0.1-0.3</b> (26-22)	<b>450006.6( )</b>	0.8	1.8	6	0.2	5000	<b>3984H/3997</b> <b>4517 / 4529</b>
	<b>450008.6( )</b>	0.8	1.8	8	0.2	5000	
	<b>450012.6( )</b>	0.8	1.8	12	0.2	5000	
<b>0.5</b> (22)	<b>450104.6( )</b>	1.1	2.2	4	0.2	5000	<b>3984H/3997</b> <b>4518 / 4527</b> <b>4529 / 4530</b> <b>4531 / 4536</b>
	<b>450106.6( )</b>	1.1	2.2	6	0.2	5000	
	<b>450107.6( )</b>	1.1	2.2	7	0.2	5000	
	<b>450108.6( )</b>	1.1	2.2	8	0.2	5000	
	<b>450110.6( )</b>	1.1	2.2	10	0.2	5000	
	<b>450112.6( )</b>	1.1	2.2	12	0.2	5000	
	<b>450115.6( )</b>	1.1	2.2	15	0.2	5000	
	<b>450118.6( )</b>	1.1	2.2	18	0.2	5000	
<b>0.75</b> (20)	<b>450206.6( )</b>	1.3	2.5	6	0.2	5000	<b>3984H/3997</b> <b>4518 / 4520</b> <b>4521 / 4523</b> <b>4524 / 4525</b> <b>4527 / 4528</b> <b>4529 / 4530</b> <b>4531 / 4534</b> <b>4536</b>
	<b>450207.6( )</b>	1.3	2.5	7	0.2	5000	
	<b>450208.6( )</b>	1.3	2.5	8	0.2	5000	
	<b>450210.6( )</b>	1.3	2.5	10	0.2	5000	
	<b>450212.6( )</b>	1.3	2.5	12	0.2	5000	
	<b>450215.6( )</b>	1.3	2.5	15	0.2	5000	
	<b>450220.6( )</b>	1.3	2.5	20	0.2	2000	
<b>1</b> (18)	<b>450306.6( )</b>	1.5	2.7	6	0.2	5000	<b>3984H/3997</b> <b>4518 / 4519</b> <b>4520 / 4521</b> <b>4523 / 4524</b> <b>4525 / 4527</b> <b>4528 / 4529</b> <b>4530 / 4531</b> <b>4534 / 4536</b>
	<b>450307.6( )</b>	1.5	2.7	7	0.2	5000	
	<b>450308.6( )</b>	1.5	2.7	8	0.2	5000	
	<b>450309.6( )</b>	1.5	2.7	9	0.2	5000	
	<b>450310.6( )</b>	1.5	2.7	10	0.2	5000	
	<b>450312.6( )</b>	1.5	2.7	12	0.2	5000	
	<b>450315.6( )</b>	1.5	2.7	15	0.2	2000	
	<b>450318.6( )</b>	1.5	2.7	18	0.2	2000	
	<b>450320.6( )</b>	1.5	2.7	20	0.2	2000	
	<b>1.5</b> (16)	<b>450406.6( )</b>	1.8	3	6	0.2	
<b>450407.6( )</b>		1.8	3	7	0.2	5000	
<b>450408.6( )</b>		1.8	3	8	0.2	5000	
<b>450410.6( )</b>		1.8	3	10	0.2	5000	
<b>450412.6( )</b>		1.8	3	12	0.2	5000	
<b>450415.6( )</b>		1.8	3	15	0.2	2000	
<b>450420.6( )</b>		1.8	3	20	0.2	2000	
<b>2.5</b> (14)	<b>450505.6( )</b>	2.2	3.5	5	0.2	5000	<b>3984H/3997</b> <b>4518 / 4519</b> <b>4520 / 4521</b> <b>4523 / 4524</b> <b>4525 / 4527</b> <b>4528 / 4529</b> <b>4530 / 4531</b> <b>4534 / 4536</b>
	<b>450506.6( )</b>	2.2	3.5	6	0.2	5000	
	<b>450507.6( )</b>	2.2	3.5	7	0.2	5000	
	<b>450508.6( )</b>	2.2	3.5	8	0.2	5000	
	<b>450510.6( )</b>	2.2	3.5	10	0.2	2000	
	<b>450512.6( )</b>	2.2	3.5	12	0.2	2000	
	<b>450515.6( )</b>	2.2	3.5	15	0.2	2000	
	<b>450520.6( )</b>	2.2	3.5	20	0.2	2000	
	<b>450530.6( )</b>	2.2	3.5	30	0.2	1000	

mm <sup>2</sup> (AWG)	Artikel-Nr. Numéro d'article Part-No.	øD1 mm	øD2 mm	L1 mm	S mm	Stand- Packg.	Werkzeuge Outils Tools
<b>2.75</b> (14)	<b>4505B05.6( )</b>	2.6	3.8	5	0.2	5000	<b>3984H/3997</b> <b>4519 / 4520</b> <b>4521 / 4523</b> <b>4524 / 4525</b> <b>4528 / 4529</b> <b>4531 / 4534</b> <b>4536</b>
	<b>4505B08.6( )</b>	2.6	3.8	8	0.2	2000	
	<b>4505B10.6( )</b>	2.6	3.8	10	0.2	2000	
	<b>4505B12.6( )</b>	2.6	3.8	12	0.2	2000	
	<b>4505B20.6( )</b>	2.6	3.8	20	0.2	2000	
<b>4</b> (12) <b>Seil</b>	<b>4506A06.6( )</b>	2.8	4	6	0.2	2000	<b>3984H/3997</b> <b>4519 / 4520</b> <b>4521 / 4523</b> <b>4524 / 4525</b> <b>4528 / 4529</b> <b>4531 / 4534</b> <b>4536</b>
	<b>4506A08.6( )</b>	2.8	4	8	0.2	2000	
	<b>4506A10.6( )</b>	2.8	4	10	0.2	2000	
	<b>4506A12.6( )</b>	2.8	4	12	0.2	2000	
	<b>4506A15.6( )</b>	2.8	4	15	0.2	2000	
	<b>4506A20.6( )</b>	2.8	4	20	0.2	1000	
	<b>4506A30.6( )</b>	2.8	4	30	0.2	1000	
	<b>4</b> (12) <b>Litze</b>	<b>4506B06.6( )</b>	3	4.3	6	0.25	
<b>4506B08.6( )</b>	3	4.3	8	0.25	2000		
<b>4506B10.6( )</b>	3	4.3	10	0.25	2000		
<b>4506B11.6( )</b>	3	4.3	11	0.25	2000		
<b>4506B12.6( )</b>	3	4.3	12	0.25	2000		
<b>4506B15.6( )</b>	3	4.3	15	0.25	1000		
<b>4506B20.6( )</b>	3	4.3	20	0.25	1000		
<b>6</b> (10) <b>Seil</b>	<b>4507A06.6( )</b>	3.6	5	6	0.2	2000	<b>3984J/3997</b> <b>4519 / 4520</b> <b>4521 / 4523</b> <b>4526 / 4528</b> <b>4529 / 4531</b> <b>4534 / 4536</b>
	<b>4507A08.6( )</b>	3.6	5	8	0.2	2000	
	<b>4507A10.6( )</b>	3.6	5	10	0.2	2000	
	<b>4507A12.6( )</b>	3.6	5	12	0.2	2000	
	<b>4507A15.6( )</b>	3.6	5	15	0.2	1000	
	<b>4507A20.6( )</b>	3.6	5	20	0.2	1000	
<b>6</b> (10) <b>Litze</b>	<b>4507B06.6( )</b>	4	5.5	6	0.25	2000	
	<b>4507B08.6( )</b>	4	5.5	8	0.25	2000	
	<b>4507B10.6( )</b>	4	5.5	10	0.25	2000	
	<b>4507B12.6( )</b>	4	5.5	12	0.25	2000	
	<b>4507B15.6( )</b>	4	5.5	15	0.25	1000	
	<b>4507B20.6( )</b>	4	5.5	20	0.25	1000	
<b>10</b> (8) <b>Seil</b>	<b>4508A06.6( )</b>	4.5	6	6	0.25	1000	<b>3984J/3997</b> <b>4520 / 4521</b> <b>4522 / 4526</b> <b>4532</b>
	<b>4508A08.6( )</b>	4.5	6	8	0.25	1000	
	<b>4508A12.6( )</b>	4.5	6	12	0.25	1000	
	<b>4508A15.6( )</b>	4.5	6	15	0.25	1000	
	<b>4508A20.6( )</b>	4.5	6	20	0.25	1000	
<b>10</b> (8) <b>Litze</b>	<b>4508B06.6( )</b>	5	6.5	6	0.25	1000	
	<b>4508B08.6( )</b>	5	6.5	8	0.25	1000	
	<b>4508B12.6( )</b>	5	6.5	12	0.25	1000	
	<b>4508B15.6( )</b>	5	6.5	15	0.25	1000	
	<b>4508B20.6( )</b>	5	6.5	20	0.25	500	
	<b>4508B30.6( )</b>	5	6.5	30	0.25	500	

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## Messing-Ader-Endhülsen ohne Isolation

## Embouts de fil en laiton sans isolation

## Uninsulated brass end-sleeves

Werkstoff:  
MS = Messing

Matière:  
MS = laiton

Material:  
MS = brass

Oberflächenbehandlung: Code  
 bl = blank (0)  
 ag = versilbert (1)  
 ni = vernickelt (5)  
 sn = verzinkt (7)

Traitements de surface: Code  
 bl = brut (0)  
 ag = argenté (1)  
 ni = nickelé (5)  
 sn = étamé (7)

Surface-plating: Code  
 bl = clean (0)  
 ag = silver-plated (1)  
 ni = nickel-plated (5)  
 sn = tin-plated (7)

**Bestellbeispiel**  
**Exemple de commande:**  
**Example of order:**

**4509A06.67**  
 (4509A/06 MS sn)



mm <sup>2</sup> (AWG)	Artikel-Nr. Numéro d'article Part-No.	øD1 mm	øD2 mm	L1 mm	S mm	Stand.- Packg.	Werkzeuge Outils Tools
<b>16</b> (6) <b>Seil</b>	<b>4509A06.6( )</b>	5.5	7	6	0.25	1000	<b>3984J/3997</b> <b>4520 / 4522</b> <b>4526 / 4532</b>
	<b>4509A08.6( )</b>	5.5	7	8	0.25	1000	
	<b>4509A12.6( )</b>	5.5	7	12	0.25	1000	
	<b>4509A15.6( )</b>	5.5	7	15	0.25	1000	
	<b>4509A20.6( )</b>	5.5	7	20	0.25	500	
	<b>4509A30.6( )</b>	5.5	7	30	0.25	500	
<b>16</b> (6) <b>Litze</b>	<b>4509B06.6( )</b>	6.4	8	6	0.3	1000	<b>4522 / 4532</b> <b>4533 / 4538</b> <b>4539</b>
	<b>4509B08.6( )</b>	6.4	8	8	0.3	1000	
	<b>4509B12.6( )</b>	6.4	8	12	0.3	500	
	<b>4509B15.6( )</b>	6.4	8	15	0.3	500	
	<b>4509B20.6( )</b>	6.4	8	20	0.3	500	
	<b>4509B30.6( )</b>	6.4	8	30	0.3	500	
<b>25</b> (4) <b>Seil</b>	<b>4510A12.6( )</b>	7	8.8	12	0.25	500	<b>4522 / 4532</b> <b>4533 / 4538</b> <b>4539</b>
	<b>4510A15.6( )</b>	7	8.8	15	0.25	500	
	<b>4510A18.6( )</b>	7	8.8	18	0.25	500	
	<b>4510A20.6( )</b>	7	8.8	20	0.25	500	
	<b>4510A40.6( )</b>	7	8.8	40	0.25	500	
	<b>25</b> (4) <b>Litze</b>	<b>4510B08.6( )</b>	7.6	9.5	8	0.2	
<b>4510B12.6( )</b>		7.6	9.5	12	0.2	500	
<b>4510B15.6( )</b>		7.6	9.5	15	0.2	500	
<b>4510B18.6( )</b>		7.6	9.5	18	0.2	500	
<b>4510B20.6( )</b>		7.6	9.5	20	0.2	500	
<b>4510B30.6( )</b>		7.6	9.5	30	0.2	500	
<b>35</b> (2) <b>Seil</b>	<b>451120.6( )</b>	8	10.5	20	0.5	200	<b>4522 / 4533</b> <b>4538</b>
	<b>451130.6( )</b>	8	10.5	30	0.5	200	
<b>35</b> (2) <b>Litze</b>	<b>451215.6( )</b>	9.4	11.5	15	0.3	200	<b>4522 / 4533</b> <b>4539</b>
	<b>451218.6( )</b>	9.4	11.5	18	0.3	200	
	<b>451220.6( )</b>	9.4	11.5	20	0.3	200	
	<b>451230.6( )</b>	9.4	11.5	30	0.3	100	
<b>50</b> (1) <b>Seil</b>	<b>451215.6( )</b>	9.4	11.5	15	0.3	200	<b>4522 / 4533</b> <b>4539</b>
	<b>451218.6( )</b>	9.4	11.5	18	0.3	200	
	<b>451220.6( )</b>	9.4	11.5	20	0.3	200	
	<b>451230.6( )</b>	9.4	11.5	30	0.3	100	
<b>50</b> (1) <b>Litze</b>	<b>451320.6( )</b>	11	13.5	20	0.5	200	<b>4533 / 4539</b>
	<b>451322.6( )</b>	11	13.5	22	0.5	200	
	<b>451330.6( )</b>	11	13.5	30	0.5	100	

mm <sup>2</sup> (AWG)	Artikel-Nr. Numéro d'article Part-No.	øD1 mm	øD2 mm	L1 mm	S mm	Stand.- Packg.	Werkzeuge Outils Tools
<b>70</b> (2/0) <b>Seil</b>	<b>451320.6( )</b>	11	13.5	20	0.5	200	<b>4533</b>
	<b>451322.6( )</b>	11	13.5	22	0.5	200	
	<b>451330.6( )</b>	11	13.5	30	0.5	100	
<b>70</b> (2/0) <b>Litze</b>	<b>451420.6( )</b>	13	15.5	20	0.5	100	<b>4537</b>
	<b>451426.6( )</b>	13	15.5	26	0.5	100	
	<b>451430.6( )</b>	13	15.5	30	0.5	100	
<b>95</b> (3/0) <b>Seil</b>	<b>451420.6( )</b>	13	15.5	20	0.5	100	<b>4537</b>
	<b>451426.6( )</b>	13	15.5	26	0.5	100	
	<b>451430.6( )</b>	13	15.5	30	0.5	100	
<b>95</b> (3/0) <b>Litze</b>	<b>451520.6( )</b>	15	17.5	20	0.5	100	<b>4537</b>
	<b>451530.6( )</b>	15	17.5	30	0.5	100	
<b>120</b> (250 MCM) <b>Seil</b>	<b>451520.6( )</b>	15	17.5	20	0.5	100	<b>4537</b>
	<b>451530.6( )</b>	15	17.5	30	0.5	100	
<b>120</b> (250 MCM) <b>Litze</b>	<b>451620.6( )</b>	17	19.5	20	0.5	100	<b>4537</b>
	<b>451630.6( )</b>	17	19.5	30	0.5	100	
<b>150</b> (300 MCM) <b>Seil</b>	<b>451620.6( )</b>	17	19.5	20	0.5	100	<b>4537</b>
	<b>451630.6( )</b>	17	19.5	30	0.5	100	