

# N2XCY

CU conductor/XLPE Insulation /PVC Filler /Concentric Copper conductor/Helical Copper Tape/PVC Jacket



FLAME RETARDANT AND UV RESISTANT/REDUCED FLAME PRPPAGATION

Construction		Technical data	
Conductor:	Cu, class 1 or 2 acc. to HRN HD 383 / IEC 60228 / DIN VDE 0295 class 1: solid, round(RE) class 2: multi wire stranded, round (RM) or sector (SM), multi wire exceeding 50 mm <sup>2</sup> are compacted	Temperature range:	
Insulation:	XLPE-compound DIX 3 acc. to HRN HD 603 S1, concentrically stranded cores, colour marked acc. to HRN HD 308 S2 / VDE 0293-308	During installation :	-5 °C up to +50 °C
Concentric conductor:	in inner layer spirally wrapped round copper wires, in external layer copper tape wrapped in counter-helix	fixed installed:	-20 °C up to +90 °C
Filler:	extruded elastomer or plastomer compound or wrapped thermoplastic tapes	at short circuit of max.	5 s: up to 250 °C
Sheath:	UV resistant PVC ( EN 50363-4-1, DIN VDE 207 TM2)	ambient temperature at storage:	up to 40 °C
sheath colour:	Black Ral 9005	Nominal voltage:	U <sub>0</sub> /U = 0.6/1 KV
Core colour marking:	HRN HD 308 S2 / VDE 0293-308	Test voltage:	3.5 KV AC for 5 Min
Abbreviations		Minimal inner bending radius:	single core :15D multi core : 12D
2X Insulation of XLPE		Behavior in fire:	IEC 60332-1
Y outer sheath of PVC		Flame propagation:	IEC 60332-3 cat.A
fl reduced flame propagation		Maximal tensile strength:	50 N/mm <sup>2</sup>
		<b>DESIGN STANDARDS</b>	
		IEC 60502-1 DIN VDE 0276 part 603 HRN HD 603 S1	



## APPLICATION

Application Distribution and signal power cable for static application in ground, in water, within facilities, in cable canals, in concrete, in conditions where there is a danger of possible mechanical damages, but where the cable is not exposed either to systematic mechanical stress or heavier tensile strain. Concentric conductor can be used as neutral, protective or earth connection, and in conditions where it is exposed to danger of damages caused by digging, it acts as protection against contact voltage, in case of rough insulation damage. Used in transformer stations, industrial plants, metropolitan networks and in other electric plants where heavier current and thermal loads are expected (operating temperature of conductor up to 90 °C).

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Code No.	number of cores x conductor cross- section	Construction	External Insulation		Sheath thickness	Conductor resistance @ 20 °C	Short circuit current 1s	Cable weight	Packing*
			approx. diameter mm	nominal thickness mm					
	N x mm <sup>2</sup>				nominal mm	max. Ω/km	nominal kA	approx. kg/km	CUT CUT
45215	2 x 1,5/1,5	RE	13	0,7	1,8	12,1	0,214	200	CUT
45225	2 x 2,5/2,5	RE	13,9	0,7	1,8	7,41	0,357	260	CUT
45240	2 x 4/4	RE	16	0,7	1,8	4,61	0,573	350	CUT
45315	3 x 1,5/1,5	RE	17	0,7	1,8	12,1	0,214	220	CUT
45325	3 x 2,5/2,5	RE	18	0,7	1,8	7,41	0,357	280	CUT
45340	3 x 4/4	RE	20	0,7	1,8	4,61	0,573	390	CUT
45316	3 x 16,/16	RE	20,1	0,7	1,8	1,15	2,29	880	CUT
45325	3 x 25/16	RM	25,7	0,9	1,8	0,727	3,58	1378	CUT
45335	3 x 35/16	SM	27,8	0,9	1,8	0,524	5,01	1705	CUT
45350	3 x 50/25	SM	30,9	1	1,8	0,387	7,15	2237	CUT
45370	3 x 70,/35	SM	35,3	1,1	1,8	0,268	10,01	3055	CUT
45395	3 x 95/50	SM	38,9	1,1	1,8	0,193	13,59	4058	CUT
453120	3 x 120/70	SM	43,1	1,2	1,8	0,153	17,16	5091	CUT
453150	3 x 150/70	SM	47,4	1,4	1,8	0,124	21,45	6108	CUT
453185	3 x 185/95	SM	52,6	1,6	1,8	0,0991	26,46	7587	CUT
453240	3 x 240/120	SM	58,7	1,7	1,8	0,0754	34,32	9817	CUT
45415	4 x 1,5/1,5	RE	18	0,7	1,8	12,1	0,214	250	CUT
45425	4 x 2,5/2,5	RE	19	0,7	1,8	7,41	0,357	340	CUT
45440	4 x 4,/4	RE	21	0,7	1,8	4,61	0,573	460	CUT
45460	4 x 6/6	RE	22	0,7	1,8	3,08	0,858	580	CUT
45515	5 x 1,5/1,5	RE	16	0,7	1,8	12,1	0,214	330	CUT
45525	5 x 2,5/2,5	RE	17	0,7	1,8	7,41	0,357	400	CUT
45540	5 x 4,/4	RE	19	0,7	1,8	4,61	0,573	550	CUT
45715	7 x 1,5/2,5	RE	19	0,7	1,8	12,1	0,214	350	CUT
451015	10 x 1,5/2,5	RE	23	0,7	1,8	12,1	0,214	410	CUT
451215	12 x 1,5/2,5	RE	24	0,7	1,8	12,1	0,214	470	CUT
451415	14 x 1,5/2,5	RE	25	0,7	1,8	12,1	0,214	520	CUT
451615	16 x 1,5/1,5	RE	26	0,7	1,8	12,1	0,214	620	CUT
451915	19 x 1,5/4	RE	28	0,7	1,8	12,1	0,214	660	CUT
452115	21 x 1,5/6	RE	22	0,7	1,8	12,1	0,214	620	CUT
452415	24 x 1,5/6	RE	31	0,7	1,8	12,1	0,214	850	CUT
453015	30 x 1,5/6	RE	32	0,7	1,8	12,1	0,214	1020	CUT
451015	40 x 1,5/10	RE	36	0,7	1,8	12,1	0,214	1280	CUT
455215	52 x 1,5/10	RE	38	0,7	1,8	12,1	0,214	1600	CUT
456115	61 x 1,5/10	RE	40	0,7	1,8	12,1	0,214	2000	CUT
45725	7 x 2,5/2,5	RE	21	0,7	1,8	7,41	0,357	450	CUT
451025	10 x 2,5/4	RE	25	0,7	1,8	7,41	0,357	600	CUT
451225	12 x 2,5/4	RE	25	0,7	1,8	7,41	0,357	660	CUT
451425	14 x 2,5/6	RE	26	0,7	1,8	7,41	0,357	750	CUT
451625	16 x 2,5/4	RE	27	0,7	1,8	7,41	0,357	800	CUT
451925	19 x 2,5/6	RE	29	0,7	1,8	7,41	0,357	940	CUT
452425	24 x 2,5/10	RE	33	0,7	1,8	7,41	0,357	1300	CUT
453025	30 x 2,5/10	RE	35	0,7	1,8	7,41	0,357	1600	CUT
454025	40 x 2,5/10	RE	39	0,7	1,8	7,41	0,357	1660	CUT
455225	52 x 2,5/10	RE	40	0,7	1,8	7,41	0,357	2000	CUT
456125	61 x 2,5/10	RE	42	0,7	1,8	7,41	0,357	2280	CUT
45740	7 x 4,/4	RE	23	0,7	1,8	4,61	0,573	600	CUT
451040	10 x 4/6	RE	27	0,7	1,8	4,61	0,573	900	CUT
451240	12 x 4/6	RE	27	0,7	1,8	4,61	0,573	1060	CUT

\*) Packing: CUT = cable in different lengths on drum or reel, possible cutting at required length