



**PROFINET 654** fixed installation, type A  
**PROFINET 655** fixed installation, type A, UL approval

ELETTROTEK KABEL\* PROFINET 654



**Construction:**

<b>CONDUCTOR:</b>	SOLID BARE COPPER CONDUCTOR
<b>INSULATION:</b>	PE COMPOUND
<b>COLOUR CORES:</b>	BLUE, YELLOW, WHITE, ORANGE
<b>STRANDING:</b>	
- PROFINET 654:	IN LAYERS
- PROFINET 655:	IN LAYERS + CENTRAL FILLER
<b>WRAPPING:</b>	PET FOIL
<b>SCREEN:</b>	
- PROFINET 654:	TINNED COPPER BRAID
- PROFINET 655:	ALUMINIUM TAPE + PET FOIL AND TINNED COPPER BRAID
<b>OUTER SHEATH:</b>	GREEN (SIMILAR RAL 6018) PVC COMPOUND

**Resistance:**



**FLAME RETARDANT ACC. TO (PROFINET 655):**  
UL 1581 & 1060 (FT1)  
UL 1061  
IEC 60332-1



**OIL RESISTANCE ACC. TO:**  
DIN VDE 0473 PART.811-2-1 IEC 60811-2-1



**OZONE RESISTANCE ACC. TO (PROFINET 655):**  
EN 50396

**Technical data:**

<b>PEAK OPERATING VOLTAGE:</b>	MAX. 350 V	
<b>UL VOLTAGE:</b>	300 V (PROFINET 655)	
<b>TEST VOLTAGE:</b>		
- PROFINET 654:	CORE/CORE 1,5 kV CORE/SCREEN 1,2 kV	
- PROFINET 655:	2 kV	
<b>TEMPERATURE RANGE</b>	<b>PROFINET 654</b>	<b>PROFINET 655</b>
FIXED LAYING:	-30 UP TO +70°C	-30°C UP TO +80°C
FLEXIBLE APPLICATION:	-5 UP TO +70°C	/
<b>MIN. BENDING RADIUS:</b>		
- PROFINET 654:	5 x D	
- PROFINET 655:	8 x D	
<b>CHARACTERISTIC IMPEDANCE:</b>	100Ω ± 5Ω, ACC. TO EN 50288-2-2 (CAT 5E ACC. TO EN 50173-1)	
<b>OHMIC RESISTANCE AT 20°C MAX.Ω/km:</b>		
- PROFINET 654:	58 ACC. TO VDE 0812	
- PROFINET 655:	56,4	

**Features:**

**AWM STYLE 10578-2571 80°C 300V (PROFINET 655)**  
ACC. TO STANDARD IEC 61156-5 AND EN 50228-2-1 (PROFINET 655)  
ROHS AND CE APPROVAL





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PROFINET 655 UL

FREQUENCY (MHZ)	ATTENUATION (DB/100 M)		NEXT (DB)		ACR-F (DB/100 M)		ACR (DB/100 M)		RETURN LOSS (DB/100 M)	
	MAX. - STD	TYPICAL	MIN. - STD	TYPICAL	MIN.	MIN.	MIN - STD	TYPICAL	MIN. STD	TYPICAL
1	2,1	1,6	65,3	80	64	81	63,2	78,4	-	29
4	4	3,2	56,3	73	52	72	52,3	69,8	23	30
10	6,3	5,1	50,3	65	44	63	44	59,9	25	31
16	8	6,5	47,2	63	39,9	57	39,2	56,5	25	31
20	9	7,4	45,8	60	38	54	36,8	52,6	25	31
31,25	11,4	9,5	42,9	56	34,1	48	31,5	46,5	23,6	27
62,5	16,5	14,3	38,4	51	28,1	39	21,9	36,7	21,5	26
100	21,3	22	35,3	48	24	32	14	29	20,1	25

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
39210CEX022M03	2 x 2 x 0,34	5,3	28	43	22
39220CEX022A22	2 x 2 x 0,34	5,9	30,4	51	22

Other dimension and colours available on request.