



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

ELETTROTEK KABEL® PROFIBUS 654



Construction:

Conductor:	solid bare copper conductor
Insulation:	PE compound
Colour cores:	blue, yellow, white, orange
Stranding:	
- <i>PROFINET 654:</i>	in layers
- <i>PROFINET 655:</i>	in layers + central filler
Wrapping:	PET foil
Screen:	
- <i>PROFINET 654:</i>	tinned copper braid
- <i>PROFINET 655:</i>	Aluminium tape + PET foil and tinned copper braid
Outer sheath:	green (similar RAL 6018) PVC compound

Technical data:

Peak operating voltage:	max. 350 V	
UL Voltage:	300 V (PROFINET 655)	
Test voltage:		
- <i>PROFINET 654:</i>	core/core 1,5 kV	
	core/screen 1,2 kV	
- <i>PROFINET 655:</i>	core/core 1,5 kV	
	core/screen 1,5 kV	
Temperature range	PROFINET 654	PROFINET 655
<i>Fixed laying:</i>	-30 up to +70°C	-30°C up to +80°C
<i>Flexible application:</i>	-5 up to +70°C	/
Min. bending radius:		
- <i>PROFINET 654:</i>	5 x d	
- <i>PROFINET 655:</i>	8 x d	
Characteristic impedance:	100Ω ± 5Ω, acc. to EN 50288-2-2 (CAT 5e acc. to EN 50173-1)	
Ohmic resistance at 20°C max.Ω/km:		
- <i>PROFINET 654:</i>	58 acc. to VDE 0812	
- <i>PROFINET 655:</i>	56,4	

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

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



NETWORK & HOME AUTOMATION CABLES

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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		
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		
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 ²	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