

A6 Selection Table

A6: UNITRONIC®-COAX-/BUS-/LAN-Cables – Interfaces COAX-/BUS-/LAN-Cables

Application Criteria	Cable and Lead Designation																							
	COAXIAL CABLE RG 6 A/U	COAXIAL CABLE RG 58 C/U	COAXIAL CABLE RG 174 A/U	COAXIAL CABLE RG 178 B/U	COAXIAL CABLE RG 188 A/U	COAXIAL CABLE RG 213 /U	COAXIAL CABLE RG 214 /U	COAXIAL CABLE RG 223 /U	COAXIAL CABLE RG 11 A/U	COAXIAL CABLE RG 11 A/U outdoor	COAXIAL CABLE RG 59 B/U	COAXIAL CABLE RG 187 A/U	COAXIAL CABLE RG 62 A/U	MULTI-COAXIAL CABLE RG 59 B/U	COAXIAL CABLE RGB	COAXIAL CABLE RGB-FD	UNITRONIC® BUS IBS	UNITRONIC® BUS IBS FD P	UNITRONIC® BUS IBS Yv	UNITRONIC® BUS IBS P COMBI	UNITRONIC® BUS IBS FD P COMBI	UNITRONIC® BUS IBS Yv COMBI	UNITRONIC® BUS LD	UNITRONIC® BUS LD FD P
Application																								
suitable for network type to:																								
IEEE 802.3 (Ethernet)	●								○															
IEEE 802.4 (MAP)											○													
IEEE 802.5 (IBM)																								
ISDN 64 K Bit																								
IBM 3270, 3600, 4300													●											
IBM AS 400, 36, 38																								
IBM PC Network									●															
10 base 5 Ethernet																								
10 base 2 Cheapernet	○																							
10 base T (UTP) 100 Ohm								○																
Token Ring (STP) 150 Ohm																								
Token Bus									●															
Radio/TV									●															
Video BAS/FBAS									●															
Video RGB Monitors									○															
EIA RS 232/V.24																						○	○	
EIA RS 422/V.11																						○	○	
EIA RS 485																						●	●	
EIA RS 232/20 mA (TTY)																								
Standards																								
PROFIBUS																		●	●	●	●	●	●	●
INTERBUS (Phoenix Contact)																	●	●	●	●	●	●	●	●
BITBUS (Intel)																						●	●	
For LAN installations (IBM, Ethernet etc.)	●						●	●	●		●	●	●											
With IBM reference approval																								
Acc. to DEC specification																								
Temperature range																								
+205 °C				□	□																			
+90 °C		□	□			□	□	□	□		□	□	□											
+80 °C																								
+70 °C																■	■	■	■					
+60 °C																								
-5 °C																								
-20 °C															□	■	■	■	■					
-30 °C																								
-40 °C		□	□			□	□	□	□		□	□	□				□	□	□	□			■	■
-50 °C																								
-190 °C				□	□																			
Characteristic impedance																								
≥ 150 Ohm																						●	●	●
≥ 120 Ohm																								
≥ 100 Ohm																	●	●	●	●	●	●	●	●
≥ 93 Ohm																								
≥ 75 Ohm	●								●	●		●	●	●		●								
≥ 60 Ohm		●	●	●	●	●	●																	
≥ 50 Ohm		●	●	●	●	●	●																	
Capacity category																								
CAT.5 ≤ 100 MHz																								
CAT.6 ≤ 250 MHz																								
CAT.7 ≤ 600 MHz																								
Make-up																								
PVC sheath	●	●	●			●	●	●	●		●	●	●	●					●		●	●	●	●
Halogen free sheath																								
PE sheath													●											
PUR sheath, wear resistant; cutting resistant																	●	●		●		●		
Flourpolymer outer sheath				●	●							●												
Laying																								
Outdoor laying in air		●	●	●	●	●	●	●		●	●	●	●	●					●				●	
indirectly in the ground	●	●	●	●	●	●	●	●		●	●	●	●	●					●				●	
Indoor use laid directly															●	●	●		●	●	●	●	●	●
directly in the ground										●													●	

Halogen free types see selection table A4.

● = Principal application

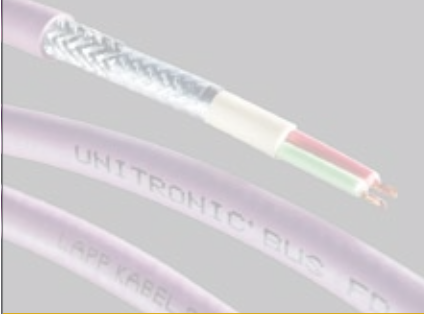
○ = Application not customary, but possible, or alternative design available in the range

■ = Temperature range for flexible laying

▣ = Temperature range for static and flexible laying

□ = Temperature range for static laying

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Application Criteria	Cable and Lead Designation																									
	UNITRONIC® BUS PB PE	UNITRONIC® BUS PB P	UNITRONIC® BUS PB TORSION	UNITRONIC® BUS PB FESTOON	UNITRONIC® BUS PB FD Y HYBRID	UNITRONIC® BUS AS-INTERFACE	UNITRONIC® BUS EIB	LAN UTP CAT.5e, 200 MHz	LAN UTP/S CAT.5e, 200 MHz	LAN UTP/BS CAT.5e, 200 MHz	LAN UTP/BS DUPLEX CAT.5e, 200 MHz	LAN UTP/S+UTP/BS flex. CAT.5e, 200 MHz	LAN PATCH COLOR, CAT.5e, 200 MHz	LAN STP/S PIMF 6e, 500 MHz	LAN STP/S PIMF CAT.7, 600 MHz	UNITRONIC® LAN 1.2 GHz	UNITRONIC® Li2YCY(TP)-Li2YCY(TP)	UNITRONIC® Li2YCY PIMF	ETHERLINE® 2 pair, stationary	ETHERLINE® 4 pair, stationary	ETHERLINE® 2 pair, flexible	ETHERLINE® 4 pair, flexible	ETHERLINE® 2 pair, highly flexible	ETHERLINE® 4 pair, highly flexible	UNITRONIC® BUS CAN	UNITRONIC® BUS CAN FD P
	Application																									
	suitable for network type to:																									
	IEEE 802.3 (Ethernet)																									
	IEEE 802.4 (MAP)																									
	IEEE 802.5 (IBM)																									
	ISDN 64 K Bit								•	•	•	•	•	•	•	•	•	•	•							
	IBM 3270, 3600, 4300																									
	IBM AS 400, 36, 38																									
	IBM PC Network																									
	10 base 5 Ethernet																									
	10 base 2 Cheapernet																									
	10 base T 100 Ohm								•	•	•	•	•	•	•	•	•			•	•	•	•			
	100 base T 100 Ohm								•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	
	Token Ring (STP) 150 Ohm																									
Token Bus																										
Radio/TV														•												
Video BAS/FBAS																										
Video RGB monitors																										
EIA RS 232/V.24								•	•	•	•	•	•	•	•	•	•	•								
EIA RS 422/V.11								•	•	•	•	•	•	•	•	•	•	•						•	•	
EIA RS 485								•	•	•	•	•	•	•	•	•	•	•								
EIA RS 232/20 mA (TTY)								•	•	•	•	•	•	•	•	•	•	•								
Standards																										
PROFIBUS	•	•	•	•																						
INTERBUS (Phoenix Contact)																										
BITBUS (Intel)																										
For LAN installations (IBM, Ethernet etc.)								•	•	•	•	•	•	•	•	•			•	•	•	•	•	•		
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+205 °C																										
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+70 °C		□				□	□	□	□	□	□	□	□	□	□	□	□							■	■	
+60 °C				□																						
-5 °C					□																	□	□	■		
-20 °C																										
-30 °C						□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□			□	■	
-40 °C	■	□	□	□																					□	
-50 °C																									□	
-190 °C																										
Characteristic impedance																										
≥ 150 Ohm	•	•	•	•	•																					
≥ 120 Ohm																										
≥ 100 Ohm								•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	
≥ 93 Ohm																										
≥ 75 Ohm																	•	•								
≥ 60 Ohm																										
≥ 50 Ohm																										
Capacity category																										
CAT.5 ≤ 100 MHz								•	•	•	•	•	•	•	•	•			•	•	•	•	•	•		
CAT.5e								•	•	•	•	•	•	•				•	•		•	•	•			
CAT.6 ≤ 250 MHz														•												
CAT.7 ≤ 600 MHz															•											
1.2 GHz																•										
Make-up																										
PVC sheath				•	•		•	•	•	•	•	•	•	•	•	•	•							•		
Halogen free sheath								•	•	•	•	•	•	•	•				•	•	•	•				
PE sheath	•																		•	•	•	•				
PUR sheath, wear resistant; cutting resistant		•	•																•	•	•	•	•	•	•	
Flourpolymer outer sheath																								•		
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Indoor use laid directly	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
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