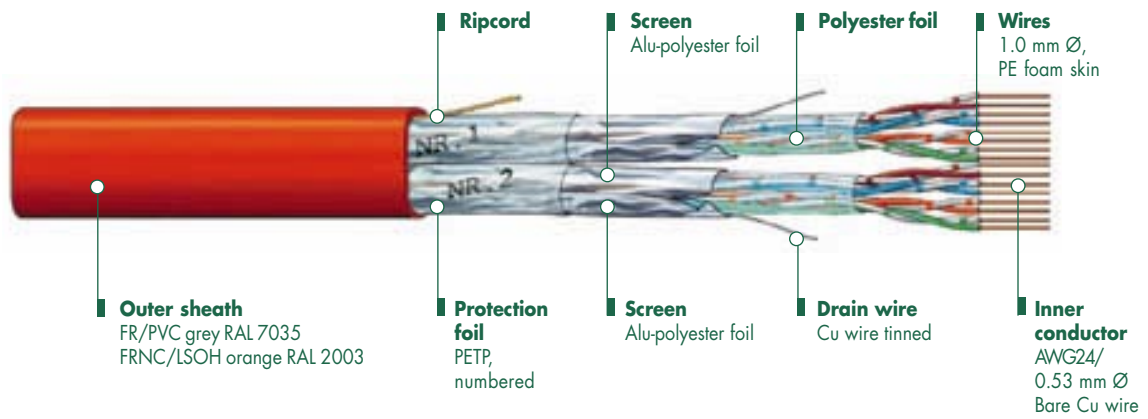




# Uninet 5002 2x4P BD (multi-element) FTP Data cable for structured premises cabling

**Dätwyler**



## Product information

### Features

Electrically and mechanically high-quality Cat. 5/Cat. 5e data cable - satisfies high demands! Foil shield provides good level of screen. Compatible with all current connecting hardware to EN 50173 and ISO/IEC 11801. Guaranteed limit values Cat. 5: ISO/IEC 11801 & EN 50173, EN 50288-2-1 and Cat. 5e: ANSI/TIA/EIA-568-A-5.

### Applications

Data cable for structured premises cabling. For transmission of digital and analogue voice, data and video signals. Especially suitable to all Class D applications. ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000 Base-T, Token Ring 4/16 Mbit/s, TP-PMD/TP-DDI 125 Mbit/s, ATM 155 Mbit/s.

### Versions

Article no.	Dimensions	Type	Sheath	Sheath Ø	Weight	CU no.	Burning load	Packaging
	n x n x mm			mm	kg/km	kg/km	kWh/m MJ/m	
181 170	2x (4 x 2 x 0.53) (AWG24)	HF-4255-U	FR/PVC <sup>1)</sup>	10.7 x 6.1	73.2	39.0	0.269 0.966	1000m Drum
181 171	2x (4 x 2 x 0.53) (AWG24)	HF-4254-U	FRNC/LSOH <sup>2)</sup>	10.7 x 6.1	68.3	39.0	0.247 0.889	1000m Drum

<sup>1)</sup> FR/PVC = Flame Retardant/Polyvinylchloride;

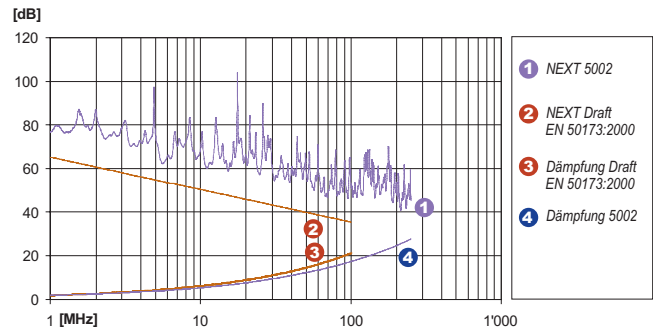
<sup>2)</sup> FRNC/LSOH = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

Technical changes reserved.

**Technical Data:**

**Electrical properties**

Loop resistance at 20°C:	160 Ω/km
Mutual capacitance:	42 pF/m
Impedance Z <sub>0</sub> :	100 Ω±15Ω
Transfer impedance at 1/10/30 MHz	< 45/90/190 mΩ/m
Near end unbalance att. LCL:	> 40 dB
Delay skew:	9 ns/100m
NVP:	76 %



Frequency [MHz]	1	4	10	16	20	31.25	62.5	100	155	200	250
Attenuation [dB/100m]	1.9	3.6	5.8	7.5	8.3	10.7	15.2	18.6	23.5	27.4	32
NEXT [dB]	75	70	65	63	59	52	47	44	43	41	40
PS NEXT [dB]	73	68	63	61	57	50	45	42	41	39	38
ACR [dB]	73.1	66.4	59.2	55.5	50.7	41.3	31.8	25.4	19.5	13.6	8
PS ACR [dB]	71.1	64.4	57.2	53.5	48.7	39.3	29.8	23.4	17.5	11.6	6
ELFEXT [dB]	84	69	63	60	55	51	47	41	38	35	30
PS ELFEXT [dB]	82	67	61	58	53	49	45	39	37	33	28
Return loss [dB]	27	31	31	31	31	30	28	28	27	26	24

These performance data are typical measured values.

**Mechanical properties**

Bending radius (over flat side)	- during draw-in	≥ 48 mm
	- permanently installed	≥ 24 mm
Tensile strength		≤ 182 N
Crush resistance		≥ 1000 N/10 cm
Impact resistance		≥ 10 impacts
Temperature range	- during installation	0°C to + 50°C
	- in operation	-20°C to + 60°C

**Environmental conditions**

Halogen content	FRNC/LSOH version halogen content accordance to IEC 60754-2
Smoke density	accordance to IEC 61034
Burning behaviour	accordance to IEC 60332-1

**General properties**

Wire colour code	white - blue/blue white - orange/orange white - green/green white - brown/brown (ring marked) accordance to IEC 189 and IEC 708
Imprint	DAETWYLER UNINET 5002 2x4P BD FR/PVC (+batch no. and meter marks) or DAETWYLER UNINET 5002 2x4P BD FRNC/LSOH (+batch no. and meter marks)

Halogen content, No corrosive gas emissions	(DIN-VDE 0472-813) New: DIN VDE 0482-267, EN 50267 (CENELEC HD 602), IEC 60754-2 (for FRNC/LSOH)
Self extinguishing	(DIN-VDE 0472-804) New: DIN VDE 0482-265, EN 50265 (CENELEC HD 405.1), IEC 60332-1
Minimum smoke production	(DIN-VDE 0472-816) New: DIN VDE 0482-268, EN 50268 (CENELEC HD 606), IEC 61034 (for FRNC/LSOH)
EMI	shielded
Category/class	better than Cat. 5, class D