



KRONE

General TrueNet™ System Installation Checklist

Refer to ADC KRONE Specifications for detailed and further requirements for a TrueNet System Warranty

Installation Feature	TrueNet Installation - Sample Requirements	Contractor's Initials
Standards Compliance	All installations are in accordance with the latest version of ISO/IEC 11801 for Cabling Performance and AS/ACIF S009 Wiring Rules.	
Horizontal Run Distance	<90 m in general, with cable labels both ends. 'Random Lay in Bundle and Tray for Cat 6 cable and Cat 6A'. Min cable lengths, FD-CP 15m, CP-TO 5m, FD-TO 15m (if no CP). Connect shielded cable to sockets at both ends. Use UTP work area cords	
Patch Cord Length	<10 metres total work area, patch & equipment cords, or else reduce horizontal Permanent Link length to compensate. Use only ADC KRONE approved lengths for C6 or C6A Warranty.	
Pair Un-twist	<13 mm for C5, <10 mm for C6, <5 mm for C6A.	
Sheath Stripping	<10 mm from termination housing for C5 & C6 and C6A.	
Minimum Bend Radius	>50 mm (100 mm dia) during installation & conduit pulls for UTP. >65 mm (130 mm dia) for all F/UTP >25 mm (50 mm dia) for unstressed horizontal cable for UTP. >25 mm (50 mm dia) for patch/equipment cords C5, C6 and C6A UTP. >25 mm (50 mm dia) for a single optical fibre patch/equipment cords.	
Cable Bundles	32 max for C5. 24 max for C6 and C6A. >25 mm separation preferred between C6A and (C6 or C5). 'Random Lay in Bundle and Tray for Cat6 cable and Cat 6A'. 2 x bundles on 1 catenary for C5 or C6. 1 x bundle on 1 catenary for C6A. No deliberate painting of cables. Overspray by acrylic paint <1m.	
Cable Ties	Loose plastic ties are permitted for C5. Velcro™ is recommended for C5. Only use Velcro™ at least 6 mm wide or other ADC KRONE approved elastic ties for C6 and C6A.	
Conduit Pathway	<40% conduit fill rate. ≤2 x 90° bends between pulling points. ≤30m continuous sections between pulling points. Conduit bend radius > x 8 copper cable dia. Conduit bend radius > x 10 OF cable dia.	
Tray Pathway	>75mm clearance between ceiling tile and underside of cable or pathway. Clearance above sides of tray = ½ tray width (100 mm minimum). Pathway and cable supports are independent from ceiling supports. <90 mm max height of mass of cables in non-continuous pathway. No cable allowed above tray/mesh sides, except cable exiting pathway. Bend control devices (50 mm min radius) where pathway drops >45°.	
Cable Supports	<300mm between fixings onto catenary wire. <300mm between 10 mm wide flat bar supports (eg whalebone). <100mm between crossbars on mesh tray. <150 mm on external bends. <800mm between ADC approved saddles or J-Hooks.	
Separations for Copper Cables (Unless calculated minimums are used)	HV (>1000Vac) = 900mm for performance. 450mm for safety. LV (≤240Vac) = 300mm for performance. 50mm or barrier for safety. EMI Separation = 300mm from fluorescent lights and electrical noise. Lightning Down Conductors = 9m (S009), 2m min for multiple earths.	
Pulling Cable	<11kg for 4-pair copper cable C5, C6 and C6A. <20 kg for multicore OF cable.	
Rack / Cabinet	Shielded cables earthed at FD/source end only; Not at the TOs. >0.9 m clearance in front and behind. >500 lux lighting intensity 1m above floor to minimise shadows on panels.	
Test Results	No FAIL results permitted for Warranty. STAR-PASS results permitted for Warranty only after prior consultation. OF 'GAIN' results permitted for Warranty only after prior consultation. All test results for Warranty shall be full "Plot Data Enabled" in tester format (pdf files are not acceptable).	