

## A2K-BULK-100M

Micro Bulk Cable Reel



2000® backbone...

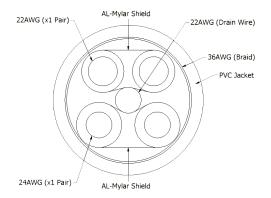
This cable can be used to create or extend an NMEA 2000® backbone of flexible lengths to suit any installation. The cable is ideal for use with the Actisense QNB-1 Quick Network Block and the QPD-1-GLA, Quick Power Drop.

The cable is UL certified to provide complete peace of mind for installers.

The Actisense range of NMEA 2000® connectors and cables has been designed using our specialist interconnect and NMEA knowledge. All Actisense products are NMEA 2000® certified and fully compatible with other NMEA 2000® connectors and devices.

The NMEA 2000® cable includes five wires within a single waterproof cable: power and ground wires, two signal wires and a drain wire. The drain wire connects to the cable shield which protects the signal, power and ground wires from external Radio Frequency Interference (RFI) and helps reduce RFI emission from the cable.

NMEA 2000® micro cable can be used to create a backbone up to 100 metres in length. If the backbone length required exceeds 100 metres, the centre of the bus can be extended with the NMEA 2000® mini cable to keep the outer micro sections to the 100 metre maximum.



Cable         Braid Material       37 AWG tinned copper         Braid Coverage       65% minimum         Jacket Material       0.8mm Nom. PVC, black         Jacket Outer Diameter       6.85mm ±0.254mm         Voltage Rating       300V         (braid + tape + drain)       3.2Ω / 1000ft (10mΩ/M)         Reel Length       100m         Reel Weight (Gross)       7.26kg         Power Pair         Conductor       22 AWG (19 strand tinned copper)         Insulation       0.3mm Nom. PVC         Diameter       1.43mm ±0.05mm         Colours       Red & black         Shield       AL Mylar tape over pair         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Max Current       4A         Data Pair         Conductor       24 AWG (19 strand tinned copper)         Insulation       0.65mm Nom. foam PE         Diameter       2.0mm ±0.05mm         Colours       Blue & white         Shield       AL Mylar tape over pair         Impedence       120Ω ±10%         DC Resistance       28Ω / 1000 ft (92mΩ/M)         Attenuation @ 125 kHz       0.50dB / 100ft         Attenuation @ 1 MHz       0.70dB / 1		
Braid Coverage	Cable	
Jacket Material   0.8mm Nom. PVC, black     Jacket Outer Diameter   6.85mm ±0.254mm     Voltage Rating   300V     (braid + tape + drain)   3.2Ω / 1000ft (10mΩ/M)     Reel Length   100m     Reel Weight (Gross)   7.26kg     Power Pair     Conductor   22 AWG (19 strand tinned copper)     Insulation   0.3mm Nom. PVC     Diameter   1.43mm ±0.05mm     Colours   Red & black     Shield   AL Mylar tape over pair     DC Resistance   17.5Ω / 1000ft (57mΩ/M)     Max Current   4A     Data Pair     Conductor   24 AWG (19 strand tinned copper)     Insulation   0.65mm Nom. foam PE     Diameter   2.0mm ±0.05mm     Colours   Blue & white     Shield   AL Mylar tape over pair     Impedence   120Ω ±10%     DC Resistance   28Ω / 1000 ft (92mΩ/M)     Attenuation @ 105 kHz   0.29dB / 100ft     Attenuation @ 105 kHz   0.50dB / 100ft     Attenuation @ 106 kHz   0.70dB / 100ft     Attenuation @ 107 kHz   0.70dB / 100ft     Drain     Conductor   22 AWG (19 strand tinned copper)     DC Resistance   17.5Ω / 1000ft (57mΩ/M)     Approvals and Certifications     Operating Temperature   -25°C to +75°C     Storage Temperature   -40°C to +85°C	Braid Material	37 AWG tinned copper
Jacket Outer Diameter  Voltage Rating  300V (braid + tape + drain)  Reel Length  100m  Reel Length  100m  Reel Weight (Gross)  Power Pair  Conductor  1.43mm ±0.05mm  Colours  Red & black  Shield  AL Mylar tape over pair  Conductor  17.5Ω / 1000ft (57mΩ/M)  Max Current  Data Pair  Conductor  24 AWG (19 strand tinned copper)  Insulation  0.65mm Nom. foam PE  Diameter  2.0mm ±0.05mm  Colours  Blue & white  Shield  AL Mylar tape over pair  Does man to the department of the depar	Braid Coverage	65% minimum
Voltage Rating 300V (braid + tape + drain) 3.2Ω / 1000ft (10mΩ/M) Reel Length 100m Reel Weight (Gross) 7.26kg  Power Pair  Conductor 22 AWG (19 strand tinned copper)  Insulation 0.3mm Nom. PVC  Diameter 1.43mm ±0.05mm  Colours Red & black Shield AL Mylar tape over pair  DC Resistance 17.5Ω / 1000ft (57mΩ/M)  Max Current 4A  Data Pair  Conductor 24 AWG (19 strand tinned copper)  Insulation 0.65mm Nom. foam PE  Diameter 2.0mm ±0.05mm  Colours Blue & white  Shield AL Mylar tape over pair  Impedence 120Ω ±10%  DC Resistance 28Ω / 1000 ft (92mΩ/M)  Attenuation @ 125 kHz 0.29dB / 100ft  Attenuation @ 1 MHz 0.70dB / 100ft  Attenuation @ 1 MHz 0.70dB / 100ft  Drain  Conductor 22 AWG (19 strand tinned copper)  DC Resistance 17.5Ω / 1000ft (57mΩ/M)  Approvals and Certifications  Operating Temperature -25°C to +75°C  Storage Temperature -40°C to +85°C	Jacket Material	0.8mm Nom. PVC, black
(braid + tape + drain)         3.2Ω / 1000ft (10mΩ/M)           Reel Length         100m           Reel Weight (Gross)         7.26kg           Power Pair           Conductor         22 AWG (19 strand tinned copper)           Insulation         0.3mm Nom. PVC           Diameter         1.43mm ±0.05mm           Colours         Red & black           Shield         AL Mylar tape over pair           DC Resistance         17.5Ω / 1000ft (57mΩ/M)           Max Current         4A           Data Pair           Conductor         24 AWG (19 strand tinned copper)           Insulation         0.65mm Nom. foam PE           Diameter         2.0mm ±0.05mm           Colours         Blue & white           Shield         AL Mylar tape over pair           Impedence         120Ω ±10%           DC Resistance         28Ω / 1000 ft (92mΩ/M)           Attenuation @ 125 kHz         0.50dB / 100ft           Attenuation @ 1 MHz         0.70dB / 100ft           Drain         Conductor         22 AWG (19 strand tinned copper)           DC Resistance         17.5Ω / 1000ft (57mΩ/M)           Approvals and Certifications         -25°C to +75°C           Storage Temperature	Jacket Outer Diameter	6.85mm ±0.254mm
Reel Length       100m         Reel Weight (Gross)       7.26kg         Power Pair         Conductor       22 AWG (19 strand tinned copper)         Insulation       0.3mm Nom. PVC         Diameter       1.43mm ±0.05mm         Colours       Red & black         Shield       AL Mylar tape over pair         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Max Current       4A         Data Pair         Conductor       24 AWG (19 strand tinned copper)         Insulation       0.65mm Nom. foam PE         Diameter       2.0mm ±0.05mm         Colours       Blue & white         Shield       AL Mylar tape over pair         Impedence       120Ω ±10%         DC Resistance       28Ω / 1000 ft (92mΩ/M)         Attenuation @ 125 kHz       0.29dB / 100ft         Attenuation @ 1 MHz       0.70dB / 100ft         Drain       Conductor       22 AWG (19 strand tinned copper)         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Approvals and Certifications       Operating Temperature       -25°C to +75°C         Storage Temperature       -40°C to +85°C	Voltage Rating	300V
Reel Weight (Gross)   7.26kg	(braid + tape + drain)	3.2Ω / 1000ft (10mΩ/M)
Power Pair         Conductor       22 AWG (19 strand tinned copper)         Insulation       0.3mm Nom. PVC         Diameter       1.43mm ±0.05mm         Colours       Red & black         Shield       AL Mylar tape over pair         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Max Current       4A         Data Pair         Conductor       24 AWG (19 strand tinned copper)         Insulation       0.65mm Nom. foam PE         Diameter       2.0mm ±0.05mm         Colours       Blue & white         Shield       AL Mylar tape over pair         Impedence       120Ω ±10%         DC Resistance       28Ω / 1000 ft (92mΩ/M)         Attenuation @ 125 kHz       0.29dB / 100ft         Attenuation @ 1 MHz       0.70dB / 100ft         Drain       Conductor       22 AWG (19 strand tinned copper)         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Approvals and Certifications       Operating Temperature       -25°C to +75°C         Storage Temperature       -40°C to +85°C	Reel Length	100m
Conductor         22 AWG (19 strand tinned copper)           Insulation         0.3mm Nom. PVC           Diameter         1.43mm ±0.05mm           Colours         Red & black           Shield         AL Mylar tape over pair           DC Resistance         17.5Ω / 1000ft (57mΩ/M)           Max Current         4A           Data Pair         Conductor           Conductor         24 AWG (19 strand tinned copper)           Insulation         0.65mm Nom. foam PE           Diameter         2.0mm ±0.05mm           Colours         Blue & white           Shield         AL Mylar tape over pair           Impedence         120Ω ±10%           DC Resistance         28Ω / 1000 ft (92mΩ/M)           Attenuation @ 125 kHz         0.29dB / 100ft           Attenuation @ 1 MHz         0.70dB / 100ft           Drain         Conductor         22 AWG (19 strand tinned copper)           DC Resistance         17.5Ω / 1000ft (57mΩ/M)           Approvals and Certifications         Operating Temperature         -25°C to +75°C           Storage Temperature         -40°C to +85°C	Reel Weight (Gross)	7.26kg
Insulation  O.3mm Nom. PVC  Diameter  1.43mm ±0.05mm  Colours  Red & black  Shield  AL Mylar tape over pair  DC Resistance  17.5Ω / 1000ft (57mΩ/M)  Max Current  4A  Data Pair  Conductor  Insulation  O.65mm Nom. foam PE  Diameter  2.0mm ±0.05mm  Colours  Blue & white  Shield  AL Mylar tape over pair  Impedence  120Ω ±10%  DC Resistance  28Ω / 1000 ft (92mΩ/M)  Attenuation @ 125 kHz  O.50dB / 100ft  Attenuation @ 1 MHz  Drain  Conductor  22 AWG (19 strand tinned copper)  DC Resistance  17.5Ω / 1000ft  Drain  Conductor  22 AWG (19 strand tinned copper)  DC Resistance  17.5Ω / 1000ft (57mΩ/M)  Approvals and Certifications  Operating Temperature  -25°C to +75°C  Storage Temperature  -40°C to +85°C	Power Pair	
Diameter  1.43mm ±0.05mm  Colours  Red & black  Shield  AL Mylar tape over pair  DC Resistance  17.5Ω / 1000ft (57mΩ/M)  Max Current  4A  Data Pair  Conductor  Insulation  0.65mm Nom. foam PE  Diameter  2.0mm ±0.05mm  Colours  Blue & white  Shield  AL Mylar tape over pair  Impedence  120Ω ±10%  DC Resistance  28Ω / 1000 ft (92mΩ/M)  Attenuation @ 125 kHz  0.29dB / 100ft  Attenuation @ 500 kHz  0.70dB / 100ft  Drain  Conductor  22 AWG (19 strand tinned copper)  DC Resistance  30 / 1000 ft (92mΩ/M)  Attenuation @ 105 kHz  0.70dB / 100ft  Drain  Conductor  22 AWG (19 strand tinned copper)  DC Resistance  17.5Ω / 1000ft (57mΩ/M)  Approvals and Certifications  Operating Temperature  -25°C to +75°C  Storage Temperature  -40°C to +85°C	Conductor	22 AWG (19 strand tinned copper)
Colours       Red & black         Shield       AL Mylar tape over pair         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Max Current       4A         Data Pair         Conductor       24 AWG (19 strand tinned copper)         Insulation       0.65mm Nom. foam PE         Diameter       2.0mm ±0.05mm         Colours       Blue & white         Shield       AL Mylar tape over pair         Impedence       120Ω ±10%         DC Resistance       28Ω / 1000 ft (92mΩ/M)         Attenuation @ 125 kHz       0.29dB / 100ft         Attenuation @ 500 kHz       0.50dB / 100ft         Attenuation @ 1 MHz       0.70dB / 100ft         Drain       Conductor       22 AWG (19 strand tinned copper)         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Approvals and Certifications       Operating Temperature       -25°C to +75°C         Storage Temperature       -40°C to +85°C	Insulation	0.3mm Nom. PVC
Shield       AL Mylar tape over pair         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Max Current       4A         Data Pair         Conductor       24 AWG (19 strand tinned copper)         Insulation       0.65mm Nom. foam PE         Diameter       2.0mm ±0.05mm         Colours       Blue & white         Shield       AL Mylar tape over pair         Impedence       120Ω ±10%         DC Resistance       28Ω / 1000 ft (92mΩ/M)         Attenuation @ 125 kHz       0.29dB / 100ft         Attenuation @ 500 kHz       0.50dB / 100ft         Attenuation @ 1 MHz       0.70dB / 100ft         Drain       Conductor       22 AWG (19 strand tinned copper)         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Approvals and Certifications       Operating Temperature       -25°C to +75°C         Storage Temperature       -40°C to +85°C	Diameter	1.43mm ±0.05mm
DC Resistance   17.5Ω / 1000ft (57mΩ/M)	Colours	Red & black
Max Current         4A           Data Pair         24 AWG (19 strand tinned copper)           Insulation         0.65mm Nom. foam PE           Diameter         2.0mm ±0.05mm           Colours         Blue & white           Shield         AL Mylar tape over pair           Impedence         120Ω ±10%           DC Resistance         28Ω / 1000 ft (92mΩ/M)           Attenuation @ 125 kHz         0.29dB / 100ft           Attenuation @ 500 kHz         0.50dB / 100ft           Attenuation @ 1 MHz         0.70dB / 100ft           Drain         Conductor         22 AWG (19 strand tinned copper)           DC Resistance         17.5Ω / 1000ft (57mΩ/M)           Approvals and Certifications         Operating Temperature         -25°C to +75°C           Storage Temperature         -40°C to +85°C	Shield	AL Mylar tape over pair
Data Pair           Conductor         24 AWG (19 strand tinned copper)           Insulation         0.65mm Nom. foam PE           Diameter         2.0mm ±0.05mm           Colours         Blue & white           Shield         AL Mylar tape over pair           Impedence         120Ω ±10%           DC Resistance         28Ω / 1000 ft (92mΩ/M)           Attenuation @ 125 kHz         0.29dB / 100ft           Attenuation @ 500 kHz         0.50dB / 100ft           Attenuation @ 1 MHz         0.70dB / 100ft           Drain         22 AWG (19 strand tinned copper)           DC Resistance         17.5Ω / 1000ft (57mΩ/M)           Approvals and Certifications         Operating Temperature         -25°C to +75°C           Storage Temperature         -40°C to +85°C	DC Resistance	17.5Ω / 1000ft (57mΩ/M)
Conductor         24 AWG (19 strand tinned copper)           Insulation         0.65mm Nom. foam PE           Diameter         2.0mm ±0.05mm           Colours         Blue & white           Shield         AL Mylar tape over pair           Impedence         120Ω ±10%           DC Resistance         28Ω / 1000 ft (92mΩ/M)           Attenuation @ 125 kHz         0.29dB / 100ft           Attenuation @ 500 kHz         0.50dB / 100ft           Attenuation @ 1 MHz         0.70dB / 100ft           Drain         Conductor         22 AWG (19 strand tinned copper)           DC Resistance         17.5Ω / 1000ft (57mΩ/M)           Approvals and Certifications         Operating Temperature         -25°C to +75°C           Storage Temperature         -40°C to +85°C	Max Current	4A
Insulation   0.65mm Nom. foam PE	Data Pair	
Diameter         2.0mm ±0.05mm           Colours         Blue & white           Shield         AL Mylar tape over pair           Impedence         120Ω ±10%           DC Resistance         28Ω / 1000 ft (92mΩ/M)           Attenuation @ 125 kHz         0.29dB / 100ft           Attenuation @ 500 kHz         0.50dB / 100ft           Attenuation @ 1 MHz         0.70dB / 100ft           Drain         22 AWG (19 strand tinned copper)           DC Resistance         17.5Ω / 1000ft (57mΩ/M)           Approvals and Certifications         Operating Temperature         -25°C to +75°C           Storage Temperature         -40°C to +85°C	Conductor	24 AWG (19 strand tinned copper)
ColoursBlue & whiteShieldAL Mylar tape over pairImpedence $120\Omega \pm 10\%$ DC Resistance $28\Omega / 1000 \text{ ft } (92 \text{m}\Omega/\text{M})$ Attenuation @ 125 kHz $0.29 \text{dB} / 100 \text{ft}$ Attenuation @ 500 kHz $0.50 \text{dB} / 100 \text{ft}$ Attenuation @ 1 MHz $0.70 \text{dB} / 100 \text{ft}$ Drain $22 \text{ AWG } (19 \text{ strand tinned copper})$ DC Resistance $17.5\Omega / 1000 \text{ft } (57 \text{m}\Omega/\text{M})$ Approvals and CertificationsOperating Temperature $-25^{\circ}\text{C to } +75^{\circ}\text{C}$ Storage Temperature $-40^{\circ}\text{C to } +85^{\circ}\text{C}$	Insulation	0.65mm Nom. foam PE
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Diameter	2.0mm ±0.05mm
Impedence         120Ω ±10%           DC Resistance         28Ω / 1000 ft (92mΩ/M)           Attenuation @ 125 kHz         0.29dB / 100ft           Attenuation @ 500 kHz         0.50dB / 100ft           Attenuation @ 1 MHz         0.70dB / 100ft           Drain         22 AWG (19 strand tinned copper)           DC Resistance         17.5Ω / 1000ft (57mΩ/M)           Approvals and Certifications         Operating Temperature           Operating Temperature         -25°C to +75°C           Storage Temperature         -40°C to +85°C	Colours	Blue & white
DC Resistance       28Ω / 1000 ft (92mΩ/M)         Attenuation @ 125 kHz       0.29dB / 100ft         Attenuation @ 500 kHz       0.50dB / 100ft         Attenuation @ 1 MHz       0.70dB / 100ft         Drain       22 AWG (19 strand tinned copper)         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Approvals and Certifications         Operating Temperature       -25°C to +75°C         Storage Temperature       -40°C to +85°C	Shield	AL Mylar tape over pair
Attenuation @ 125 kHz	Impedence	120Ω ±10%
Attenuation @ 500 kHz       0.50dB / 100ft         Attenuation @ 1 MHz       0.70dB / 100ft         Drain       22 AWG (19 strand tinned copper)         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Approvals and Certifications       Operating Temperature         -25°C to +75°C         Storage Temperature       -40°C to +85°C	DC Resistance	$28\Omega$ / 1000 ft (92m $\Omega$ /M)
Attenuation @ 1 MHz   0.70dB / 100ft    Drain   Conductor	A+++: @ 12F  -  -	
Drain         Conductor       22 AWG (19 strand tinned copper)         DC Resistance       17.5Ω / 1000ft (57mΩ/M)         Approvals and Certifications         Operating Temperature       -25°C to +75°C         Storage Temperature       -40°C to +85°C	Attenuation @ 125 kHz	0.29dB / 100ft
Conductor 22 AWG (19 strand tinned copper)  DC Resistance $17.5\Omega / 1000 \text{ft} (57 \text{m}\Omega/\text{M})$ Approvals and Certifications  Operating Temperature $-25^{\circ}\text{C}$ to $+75^{\circ}\text{C}$ Storage Temperature $-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$		
DC Resistance $17.5\Omega / 1000 \text{ft} (57 \text{m}\Omega/\text{M})$ Approvals and Certifications  Operating Temperature $-25^{\circ}\text{C}$ to $+75^{\circ}\text{C}$ Storage Temperature $-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$	Attenuation @ 500 kHz	0.50dB / 100ft
Approvals and Certifications  Operating Temperature -25°C to +75°C  Storage Temperature -40°C to +85°C	Attenuation @ 500 kHz Attenuation @ 1 MHz	0.50dB / 100ft
Operating Temperature -25°C to +75°C  Storage Temperature -40°C to +85°C	Attenuation @ 500 kHz Attenuation @ 1 MHz Drain	0.50dB / 100ft 0.70dB / 100ft
Storage Temperature -40°C to +85°C	Attenuation @ 500 kHz Attenuation @ 1 MHz  Drain  Conductor	0.50dB / 100ft 0.70dB / 100ft 22 AWG (19 strand tinned copper)
	Attenuation @ 500 kHz Attenuation @ 1 MHz  Drain  Conductor  DC Resistance	0.50dB / 100ft 0.70dB / 100ft 22 AWG (19 strand tinned copper) 17.5Ω / 1000ft (57mΩ/M)
NMEA 2000 Certified, RoHS Compliant, UL Certified (E137250), (UL1277)	Attenuation @ 500 kHz Attenuation @ 1 MHz  Drain  Conductor  DC Resistance  Approvals and Certifications	0.50dB / 100ft 0.70dB / 100ft 22 AWG (19 strand tinned copper) 17.5Ω / 1000ft (57mΩ/M)
	Attenuation @ 500 kHz Attenuation @ 1 MHz  Drain  Conductor  DC Resistance  Approvals and Certifications  Operating Temperature	0.50dB / 100ft 0.70dB / 100ft 22 AWG (19 strand tinned copper) 17.5Ω / 1000ft (57mΩ/M) -25°C to +75°C

