

Be Certain with Belden



EtherMATE™ Industrial Ethernet Double-Ended Cord Sets

High-Flex/High Noise, Stranded/Shielded, 24 AWG, PVC Jacket

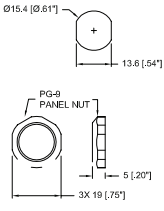
Type	0985 656 103	0985 656 104	0985 656 500	0985 656 504																																																																																																																								
Configuration	M12 to RJ45	M12 (receptacle) to RJ45	RJ45 to RJ45	RJ45 to RJ45 (crossover)																																																																																																																								
Product Description	Industrial Ethernet double-ended cord set, high-flex, male, M12 to RJ45 straight, 4-pair, 24 AWG, PVC cable, stranded/shielded with teal jacket and orange inserts.	Industrial Ethernet, double-ended cord set, high-flex, M12 female receptacle to RJ45 male, 4-pair, 24 AWG, PVC cable, stranded/shielded, with teal jacket.	Industrial Ethernet double-ended cord set, high-flex, male, RJ45 to RJ45 straight, 4-pair, 24 AWG, PVC cable, stranded/shielded with teal jacket.	Industrial Ethernet double-ended cord set, high-flex, male, RJ45 to RJ45 straight, 4-pair, 24 AWG, PVC cable, stranded/shielded crossover with teal jacket.																																																																																																																								
Category Rating			CAT5e																																																																																																																									
Technical Illustration																																																																																																																												
Wiring diagram	<table border="0"> <thead> <tr> <th>M12</th> <th>Color</th> <th>RJ45</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>White/Orange</td> <td>1</td> </tr> <tr> <td>4</td> <td>Orange</td> <td>2</td> </tr> <tr> <td>1</td> <td>White/Blue</td> <td>5</td> </tr> <tr> <td>7</td> <td>Blue</td> <td>4</td> </tr> <tr> <td>5</td> <td>White/Green</td> <td>3</td> </tr> <tr> <td>8</td> <td>Green</td> <td>6</td> </tr> <tr> <td>2</td> <td>White/Brown</td> <td>7</td> </tr> <tr> <td>3</td> <td>Brown</td> <td>8</td> </tr> <tr> <td>Nut</td> <td>Shield</td> <td>Shell</td> </tr> </tbody> </table>	M12	Color	RJ45	6	White/Orange	1	4	Orange	2	1	White/Blue	5	7	Blue	4	5	White/Green	3	8	Green	6	2	White/Brown	7	3	Brown	8	Nut	Shield	Shell	<table border="0"> <thead> <tr> <th>M12</th> <th>Color</th> <th>RJ45</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>White/Orange</td> <td>1</td> </tr> <tr> <td>4</td> <td>Orange</td> <td>2</td> </tr> <tr> <td>1</td> <td>White/Blue</td> <td>5</td> </tr> <tr> <td>7</td> <td>Blue</td> <td>4</td> </tr> <tr> <td>5</td> <td>White/Green</td> <td>3</td> </tr> <tr> <td>8</td> <td>Green</td> <td>6</td> </tr> <tr> <td>2</td> <td>White/Brown</td> <td>7</td> </tr> <tr> <td>3</td> <td>Brown</td> <td>8</td> </tr> <tr> <td>Nut</td> <td>Shield</td> <td>Shell</td> </tr> </tbody> </table>	M12	Color	RJ45	6	White/Orange	1	4	Orange	2	1	White/Blue	5	7	Blue	4	5	White/Green	3	8	Green	6	2	White/Brown	7	3	Brown	8	Nut	Shield	Shell	<table border="0"> <thead> <tr> <th>RJ45</th> <th>Color</th> <th>RJ45</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>White/Orange</td> <td>1</td> </tr> <tr> <td>2</td> <td>Orange</td> <td>2</td> </tr> <tr> <td>5</td> <td>White/Blue</td> <td>5</td> </tr> <tr> <td>4</td> <td>Blue</td> <td>4</td> </tr> <tr> <td>3</td> <td>White/Green</td> <td>3</td> </tr> <tr> <td>6</td> <td>Green</td> <td>6</td> </tr> <tr> <td>7</td> <td>White/Brown</td> <td>7</td> </tr> <tr> <td>8</td> <td>Brown</td> <td>8</td> </tr> <tr> <td>Shell</td> <td>Shield</td> <td>Shell</td> </tr> </tbody> </table>	RJ45	Color	RJ45	1	White/Orange	1	2	Orange	2	5	White/Blue	5	4	Blue	4	3	White/Green	3	6	Green	6	7	White/Brown	7	8	Brown	8	Shell	Shield	Shell	<table border="0"> <thead> <tr> <th>RJ-45S</th> <th>Color</th> <th>RJ-45S</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>White/Orange</td> <td>3</td> </tr> <tr> <td>2</td> <td>Orange</td> <td>6</td> </tr> <tr> <td>5</td> <td>White/Blue</td> <td>5</td> </tr> <tr> <td>4</td> <td>Blue</td> <td>4</td> </tr> <tr> <td>3</td> <td>White/Green</td> <td>1</td> </tr> <tr> <td>6</td> <td>Green</td> <td>2</td> </tr> <tr> <td>7</td> <td>White/Brown</td> <td>7</td> </tr> <tr> <td>8</td> <td>Brown</td> <td>8</td> </tr> <tr> <td>Shield</td> <td>Shield</td> <td>Shield</td> </tr> </tbody> </table>	RJ-45S	Color	RJ-45S	1	White/Orange	3	2	Orange	6	5	White/Blue	5	4	Blue	4	3	White/Green	1	6	Green	2	7	White/Brown	7	8	Brown	8	Shield	Shield	Shield
M12	Color	RJ45																																																																																																																										
6	White/Orange	1																																																																																																																										
4	Orange	2																																																																																																																										
1	White/Blue	5																																																																																																																										
7	Blue	4																																																																																																																										
5	White/Green	3																																																																																																																										
8	Green	6																																																																																																																										
2	White/Brown	7																																																																																																																										
3	Brown	8																																																																																																																										
Nut	Shield	Shell																																																																																																																										
M12	Color	RJ45																																																																																																																										
6	White/Orange	1																																																																																																																										
4	Orange	2																																																																																																																										
1	White/Blue	5																																																																																																																										
7	Blue	4																																																																																																																										
5	White/Green	3																																																																																																																										
8	Green	6																																																																																																																										
2	White/Brown	7																																																																																																																										
3	Brown	8																																																																																																																										
Nut	Shield	Shell																																																																																																																										
RJ45	Color	RJ45																																																																																																																										
1	White/Orange	1																																																																																																																										
2	Orange	2																																																																																																																										
5	White/Blue	5																																																																																																																										
4	Blue	4																																																																																																																										
3	White/Green	3																																																																																																																										
6	Green	6																																																																																																																										
7	White/Brown	7																																																																																																																										
8	Brown	8																																																																																																																										
Shell	Shield	Shell																																																																																																																										
RJ-45S	Color	RJ-45S																																																																																																																										
1	White/Orange	3																																																																																																																										
2	Orange	6																																																																																																																										
5	White/Blue	5																																																																																																																										
4	Blue	4																																																																																																																										
3	White/Green	1																																																																																																																										
6	Green	2																																																																																																																										
7	White/Brown	7																																																																																																																										
8	Brown	8																																																																																																																										
Shield	Shield	Shield																																																																																																																										
Face views																																																																																																																												
Part number	0985 656 103/...M	0985 656 104/...M	0985 656 500/...M	0985 656 504/...M																																																																																																																								
Standard cable lengths	0.3 M / 0.5 M / 1 M / 2 M / 3 M / 4 M / 5 M / 10 M / 15 M / 20 M	0.5 M / 1 M / 2 M / 5 M / 10 M / 15 M / 20 M	0.3 M / 0.5 M / 1 M / 2 M / 3 M / 4 M / 5 M / 10 M / 15 M / 20 M / 25 M / 30 M / 35 M / 40 M / 45 M / 50 M / 55 M / 60 M / 65 M / 70 M / 75 M / 80 M / 85 M / 90 M	0.6 M / 1 M / 2 M / 5 M / 10 M / 15 M / 30 M																																																																																																																								

EtherMATE™ Industrial Ethernet Double-Ended Cord Sets

High-Flex/High Noise, Stranded/Shielded, 24 AWG, PVC Jacket

Type	0985 656 103	0985 656 104	0985 656 500	0985 656 504
Degree of protection	IP67 / IP20		IP20	
Operating temperature range	-20°C(-4°F) to +75°C(+167°F)			
Mechanical				
M12				
Molded body	PUR, black			
Coupling nut	Brass, nickel plated			
Contacts	Brass, gold over nickel plated			
Insert	PUR orange			
M12 Receptacle				
Housing	Brass, nickel plated			
Insert	PUR, black			
Contacts	Brass, gold plated			
RJ45				
Housing	Pre-tinned copper alloy			
Insert	Clear polycarbonate			
Contacts	50 μ" gold in contact area over nickel plating			
Cable specifications				
Cable jacket	PVC, (sun and oil resistant)			
Color	Teal			
Overall diameter	7.77mm, nominal			
Conductor	24 AWG, 7 strands tinned copper			
Number of pairs	4			
Insulation	Polyethylene			
Foil shield	Aluminum/polypropylene tape, 100% coverage			
Braided shield	Tinned copper, 65% coverage			
EMI protection	50 dB @ 0.772 MHz - 1000 MHz			
Agency approval	ETL rated CMR			
Cable type	CAT5, high flex / high noise (0985 656 500/504 CAT5e)			
Safety Voltage Rating (for cable)				

Characteristics	
 <p>NOTE: Vibration & Oil Resistant applies to M12 side only.</p>	

Recommended panel cut out


The application of these products in harsh environments should always be checked before use.
 Specifications subject to alteration.