

Industrial Field Connectivity

September 2021

High-flex Ethernet cordsets

600 V-rated TPE cable jackets for industrial data applications

High-flex Ethernet cordsets are now a part of the North American cabling portfolio. The increased complexity of automated processes is driving demand for network cables that can do more in a limited amount of space. Ethernet cables and cordsets can be run next to power circuits, have Power over Ethernet (PoE) capability, and have increased longevity in demanding industrial and robotic applications.



In addition to *where* Ethernet cables can go, *what* Ethernet cables can do is also expanding. Flex ratings (with a proper bend radius) have increased to allow for use beyond static applications. PoE is also changing the way Ethernet cables are used. Already in use in the commercial world for devices such as surveillance cameras, PoE is growing in popularity for the industrial world as well. Our cable material is PoE-compliant when installed per recommendations in TIA TSB-184. As Ethernet networking continues to grow, its use is increasing in industrial areas where equipment is close to high-voltage cabling. Our 600 volt-rated UL AWM 2463 Ethernet cable jacket meets NFPA 79 requirements to be run together with high-voltage power and signal cables. This benefit not only saves space, but also saves cost by eliminating the need to route Ethernet cables in separate paths.

One of the biggest strengths of the Phoenix Contact North American program is the ability to provide local production and service through our facility in Harrisburg, PA. No borders, no added logistics.

Technical features and benefits











- Lateral flex bend cycles: Up to 20 million cycles
- Torsional flex cycles: Up to 4.8 million cycles
- Voltage rating (cable jacket): 600 V
- Wire size: 24 AWG
- Shielding style: SF/UTP
- Temperature range: -40° to 80°C
- Category CAT5e (IEC 11801), up to 1 Gbps
- UV-resistant CMX outdoor
- Resistant to welding splashes

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Applications

- Robotics
- Integrators / cabinet builders / panel shops
- Factory automation
- Machine builders
- Surveillance (IP cameras for facilities or cities)
- Vision cameras (quality inspection)
- Network infrastructure (office to machine)

Portfolio overview:

M12 High-Flex Ethernet Cordsets - Teal TPE 600 V Cable Jacket										
# Wires	Configuration	0.5 M	2 M	5 M	10 M	15 M	20 M	30 M	40 M	CMAT
  	4-pos. Male Straight / Open End	-	1192174	1192173	1192172	1192171	1192170	1192169	1192168	1201754/.../...
	D-Code Male 90° / Open End	-	1192167	1192166	1192165	-	-	-	-	1201755/.../...
	Female Straight / Open End	-	1192164	1192161	1192159	-	-	-	-	1201757/.../...
	Female 90° / Open End	-	1192158	1192157	1192156	-	-	-	-	1201753/.../...
	Male Straight / Male Straight	1192155	1192154	1192152	1192151	1192150	1192149	1192148	1192147	1201758/.../...
	Male Straight / Female Straight	1192146	1192145	-	-	-	-	-	-	1201759/.../...
	Male 90° / Male 90°	1192144	1192143	-	-	-	-	-	-	1201760/.../...
	Male 90° / Female 90°	1192142	1192141	-	-	-	-	-	-	1201761/.../...
	Male Straight / RJ45 Straight	1192140	1192139	1192138	1192137	1192136	1192135	1192134	1192133	1201762/.../...
	Male 90° / RJ45 Straight	1192132	1192131	-	-	-	-	-	-	1201763/.../...
  	8-pos. Male Straight / Open End	-	1192130	1192129	1192128	1192126	1192124	1192123	1192122	1201764/.../...
	A-Code Male 90° / Open End	-	1192121	1192120	1192119	-	-	-	-	1201765/.../...
	Female Straight / Open End	-	1192118	1192117	1192116	-	-	-	-	1201766/.../...
	Female 90° / Open End	-	1192115	1192114	1192113	-	-	-	-	1201767/.../...
	Male Straight / Male Straight	1192112	1192111	1192110	1192109	1192108	1192107	1192106	1192105	1201768/.../...
	Male Straight / Female Straight	1192104	1192103	-	-	-	-	-	-	1201770/.../...
	Male 90° / Male 90°	1192102	1192101	-	-	-	-	-	-	1201771/.../...
	Male 90° / Female 90°	1192100	1192098	-	-	-	-	-	-	1201773/.../...
	Male Straight / RJ45 Straight	1192096	1192095	1192094	1192093	1192092	1192091	1192090	1192089	1201774/.../...
	Male 90° / RJ45 Straight	1192088	1192087	-	-	-	-	-	-	1201775/.../...
RJ45 High-Flex Ethernet Patch cables - Teal TPE 600 V Cable Jacket										
Image	Configuration	0.3 M	0.5 M	1 M	2 M	3 M	5 M	10 M	15 M	20 M
	4-wire (2-pair) Straight / Straight	1199417	1199415	1199413	1199412	1199411	1199410	1199408	1199405	1199404
	8-wire (4-pair) Straight / Straight	1199422	1199427	1199426	1199425	1199424	1199423	1199421	1199420	1199418
Cable Reels - High-Flex Ethernet - Teal TPE 600 V Cable Jacket										
Image	Configuration	Detail	Jacket Material	Jacket Color	Wire Size	Cross Section	Cable Diameter	Phoenix Name	100 M	300 M
	4-wire (2-pair) Braided SF-UTP		TPE	Teal	24 AWG	0.25 mm ²	6.3 mm	93F	1180721	1180722
	8-wire (4-pair) Braided SF-UTP		TPE	Teal	24 AWG	0.25 mm ²	6.3 mm	94L	1180723	1180724

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Ordering information

Part #	Description	List price	Discount code	Standard Pack	NCNR?	Responsible Contact
1192174	NBC-M12MSD/ 2,0-93F	\$25.73	B22	1	No	Yogi Patel
1192173	NBC-M12MSD/ 5,0-93F	\$38.98	B22	1	No	Yogi Patel
1192172	NBC-M12MSD/ 10,0-93F	\$61.05	B22	1	No	Yogi Patel
1192171	NBC-M12MSD/ 15,0-93F	\$83.13	B22	1	No	Yogi Patel
1192170	NBC-M12MSD/ 20,0-93F	\$105.20	B22	1	No	Yogi Patel
1192169	NBC-M12MSD/ 30,0-93F	\$149.35	B22	1	No	Yogi Patel
1192168	NBC-M12MSD/ 40,0-93F	\$193.50	B22	1	No	Yogi Patel
1201754	NBC-M12MSD/93F/...	Configurable	B22	1	Yes	Yogi Patel
1192167	NBC-M12MRD/ 2,0-93F	\$28.03	B22	1	No	Yogi Patel
1192166	NBC-M12MRD/ 5,0-93F	\$41.25	B22	1	No	Yogi Patel
1192165	NBC-M12MRD/ 10,0-93F	\$63.33	B22	1	No	Yogi Patel
1201755	NBC-M12MRD/93F/...	Configurable	B22	1	Yes	Yogi Patel
1192164	NBC- 2,0-93F/M12FSD	\$26.35	B22	1	No	Yogi Patel
1192161	NBC- 5,0-93F/M12FSD	\$39.58	B22	1	No	Yogi Patel
1192159	NBC- 10,0-93F/M12FSD	\$61.65	B22	1	No	Yogi Patel
1201757	NBC-M12FSD/93F/...	Configurable	B22	1	Yes	Yogi Patel
1192158	NBC- 2,0-93F/M12FRD	\$28.93	B22	1	No	Yogi Patel
1192157	NBC- 5,0-93F/M12FRD	\$42.18	B22	1	No	Yogi Patel
1192156	NBC- 10,0-93F/M12FRD	\$64.25	B22	1	No	Yogi Patel
1201753	NBC-M12FRD/93F/...	Configurable	B22	1	Yes	Yogi Patel
1192155	NBC-M12MSD/ 0,5-93F/M12MSD	\$36.00	B22	1	No	Yogi Patel
1192154	NBC-M12MSD/ 2,0-93F/M12MSD	\$42.63	B22	1	No	Yogi Patel
1192152	NBC-M12MSD/ 5,0-93F/M12MSD	\$55.88	B22	1	No	Yogi Patel
1192151	NBC-M12MSD/ 10,0-93F/M12MSD	\$77.95	B22	1	No	Yogi Patel
1192150	NBC-M12MSD/ 15,0-93F/M12MSD	\$100.03	B22	1	No	Yogi Patel
1192149	NBC-M12MSD/ 20,0-93F/M12MSD	\$122.10	B22	1	No	Yogi Patel
1192148	NBC-M12MSD/ 30,0-93F/M12MSD	\$166.25	B22	1	No	Yogi Patel
1192147	NBC-M12MSD/ 40,0-93F/M12MSD	\$210.40	B22	1	No	Yogi Patel
1201758	NBC-M12MSD-M12MSD/93F/...	Configurable	B22	1	Yes	Yogi Patel
1192146	NBC-M12MSD/ 0,5-93F/M12FSD	\$36.63	B22	1	No	Yogi Patel
1192145	NBC-M12MSD/ 2,0-93F/M12FSD	\$43.25	B22	1	No	Yogi Patel
1201759	NBC-M12MSD-M12FSD/93F/...	Configurable	B22	1	Yes	Yogi Patel
1192144	NBC-M12MRD/ 0,5-93F/M12MRD	\$40.58	B22	1	No	Yogi Patel
1192143	NBC-M12MRD/ 2,0-93F/M12MRD	\$47.20	B22	1	No	Yogi Patel
1201760	NBC-M12MRD-M12MRD/93F/...	Configurable	B22	1	Yes	Yogi Patel

INDUSTRIAL COMPONENTS

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1192142	NBC-M12MRD/ 0,5-93F/M12FRD	\$41.50	B22	1	No	Yogi Patel
1192141	NBC-M12MRD/ 2,0-93F/M12FRD	\$48.10	B22	1	No	Yogi Patel
1201761	NBC-M12MRD-M12FRD/93F/...	Configurable	B22	1	Yes	Yogi Patel
1192140	NBC-M12MSD/ 0,5-93F/R4AC	\$32.70	B22	1	No	Yogi Patel
1192139	NBC-M12MSD/ 2,0-93F/R4AC	\$39.33	B22	1	No	Yogi Patel
1192138	NBC-M12MSD/ 5,0-93F/R4AC	\$52.58	B22	1	No	Yogi Patel
1192137	NBC-M12MSD/ 10,0-93F/R4AC	\$74.65	B22	1	No	Yogi Patel
1192136	NBC-M12MSD/ 15,0-93F/R4AC	\$96.73	B22	1	No	Yogi Patel
1192135	NBC-M12MSD/ 20,0-93F/R4AC	\$118.80	B22	1	No	Yogi Patel
1192134	NBC-M12MSD/ 30,0-93F/R4AC	\$162.95	B22	1	No	Yogi Patel
1192133	NBC-M12MSD/ 40,0-93F/R4AC	\$207.10	B22	1	No	Yogi Patel
1201762	NBC-M12MSD-R4AC/93F/...	Configurable	B22	1	Yes	Yogi Patel
1192132	NBC-M12MRD/ 0,5-93F/R4AC	\$35.00	B22	1	No	Yogi Patel
1192131	NBC-M12MRD/ 2,0-93F/R4AC	\$41.63	B22	1	No	Yogi Patel
1201763	NBC-M12MRD-R4AC/93F/...	Configurable	B22	1	Yes	Yogi Patel
1192130	NBC-M12MS/ 2,0-94L	\$32.93	B22	1	No	Yogi Patel
1192129	NBC-M12MS/ 5,0-94L	\$50.15	B22	1	No	Yogi Patel
1192128	NBC-M12MS/10,0-94L	\$78.83	B22	1	No	Yogi Patel
1192126	NBC-M12MS/15,0-94L	\$107.50	B22	1	No	Yogi Patel
1192124	NBC-M12MS/20,0-94L	\$136.15	B22	1	No	Yogi Patel
1192123	NBC-M12MS/30,0-94L	\$193.50	B22	1	No	Yogi Patel
1192122	NBC-M12MS/40,0-94L	\$250.85	B22	1	No	Yogi Patel
1201764	NBC-M12MS/94L/...	Configurable	B22	1	Yes	Yogi Patel
1192121	NBC-M12MR/ 2,0-94L	\$35.18	B22	1	No	Yogi Patel
1192120	NBC-M12MR/ 5,0-94L	\$52.38	B22	1	No	Yogi Patel
1192119	NBC-M12MR/10,0-94L	\$81.05	B22	1	No	Yogi Patel
1201765	NBC-M12MR/94L/...	Configurable	B22	1	Yes	Yogi Patel
1192118	NBC- 2,0-94L/M12FS	\$34.25	B22	1	No	Yogi Patel
1192117	NBC- 5,0-94L/M12FS	\$51.45	B22	1	No	Yogi Patel
1192116	NBC-10,0-94L/M12FS	\$80.13	B22	1	No	Yogi Patel
1201766	NBC-M12FS/94L/...	Configurable	B22	1	Yes	Yogi Patel
1192115	NBC- 2,0-94L/M12FR	\$35.68	B22	1	No	Yogi Patel
1192114	NBC- 5,0-94L/M12FR	\$52.88	B22	1	No	Yogi Patel
1192113	NBC-10,0-94L/M12FR	\$45.80	B22	1	No	Yogi Patel
1201767	NBC-M12FR/94L/...	Configurable	B22	1	Yes	Yogi Patel
1192112	NBC-M12MS/ 0,5-94L/M12MS	\$38.93	B22	1	No	Yogi Patel
1192111	NBC-M12MS/ 2,0-94L/M12MS	\$54.40	B22	1	No	Yogi Patel
1192110	NBC-M12MS/ 5,0-94L/M12MS	\$71.60	B22	1	No	Yogi Patel

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1192109	NBC-M12MS/10,0-94L/M12MS	\$100.28	B22	1	No	Yogi Patel
1192108	NBC-M12MS/15,0-94L/M12MS	\$128.95	B22	1	No	Yogi Patel
1192107	NBC-M12MS/20,0-94L/M12MS	\$157.63	B22	1	No	Yogi Patel
1192106	NBC-M12MS/30,0-94L/M12MS	\$214.98	B22	1	No	Yogi Patel
1192105	NBC-M12MS/40,0-94L/M12MS	\$272.33	B22	1	No	Yogi Patel
1201768	NBC-M12MS-M12MS/94L/...	Configurable	B22	1	Yes	Yogi Patel
1192104	NBC-M12MS/ 0,5-94L/M12FS	\$47.13	B22	1	No	Yogi Patel
1192103	NBC-M12MS/ 2,0-94L/M12FS	\$55.73	B22	1	No	Yogi Patel
1201770	NBC-M12MS-M12FS/94L/...	Configurable	B22	1	Yes	Yogi Patel
1192102	NBC-M12MR/ 0,5-94L/M12MR	\$50.28	B22	1	No	Yogi Patel
1192101	NBC-M12MR/ 2,0-94L/M12MR	\$58.88	B22	1	No	Yogi Patel
1201771	NBC-M12MR-M12MR/94L/...	Configurable	B22	1	Yes	Yogi Patel
1192100	NBC-M12MR/ 0,5-94L/M12FR	\$50.78	B22	1	No	Yogi Patel
1192098	NBC-M12MR/ 2,0-94L/M12FR	\$59.38	B22	1	No	Yogi Patel
1201773	NBC-M12MR-M12FR/94L/...	Configurable	B22	1	Yes	Yogi Patel
1192096	NBC-M12MS/ 0,5-94L/R4AC	\$37.93	B22	1	No	Yogi Patel
1192095	NBC-M12MS/ 2,0-94L/R4AC	\$46.55	B22	1	No	Yogi Patel
1192094	NBC-M12MS/ 5,0-94L/R4AC	\$63.75	B22	1	No	Yogi Patel
1192093	NBC-M12MS/10,0-94L/R4AC	\$92.43	B22	1	No	Yogi Patel
1192092	NBC-M12MS/15,0-94L/R4AC	\$121.10	B22	1	No	Yogi Patel
1192091	NBC-M12MS/20,0-94L/R4AC	\$149.78	B22	1	No	Yogi Patel
1192090	NBC-M12MS/30,0-94L/R4AC	\$207.10	B22	1	No	Yogi Patel
1192089	NBC-M12MS/40,0-94L/R4AC	\$264.45	B22	1	No	Yogi Patel
1201774	NBC-M12MS-R4AC/94L/...	Configurable	B22	1	Yes	Yogi Patel
1192088	NBC-M12MR/ 0,5-94L/R4AC	\$40.18	B22	1	No	Yogi Patel
1192087	NBC-M12MR/ 2,0-94L/R4AC	\$48.78	B22	1	No	Yogi Patel
1201775	NBC-M12MR-R4AC/94L/...	Configurable	B22	1	Yes	Yogi Patel
1180721	NBC-2X2X24-OE-OE-93F-100,0 SH	\$861.17	B22	1	No	Yogi Patel
1180722	NBC-2X2X24-OE-OE-93F-300,0 SH	\$2,500.29	B22	1	No	Yogi Patel
1180723	NBC-4X2X24-OE-OE-94L-100,0 SH	\$1,102.62	B22	1	No	Yogi Patel
1180724	NBC-4X2X24-OE-OE-94L-300,0 SH	\$3,224.33	B22	1	No	Yogi Patel
1199417	NBC-R4AC/0,3-93F/R4AC	\$31.12	A08	1	No	Joel Boone
1199415	NBC-R4AC/0,5-93F/R4AC	\$31.95	A08	1	No	Joel Boone
1199413	NBC-R4AC/1,0-93F/R4AC	\$34.01	A08	1	No	Joel Boone
1199412	NBC-R4AC/2,0-93F/R4AC	\$38.42	A08	1	No	Joel Boone
1199411	NBC-R4AC/3,0-93F/R4AC	\$43.40	A08	1	No	Joel Boone
1199410	NBC-R4AC/5,0-93F/R4AC	\$51.68	A08	1	No	Joel Boone
1199408	NBC-R4AC/10,0-93F/R4AC	\$73.61	A08	1	No	Joel Boone

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1199405	NBC-R4AC/15,0-93F/R4AC	\$95.65	A08	1	No	Joel Boone
1199404	NBC-R4AC/20,0-93F/R4AC	\$117.27	A08	1	No	Joel Boone
1199422	NBC-R4AC/0,3-94L/R4AC	\$35.79	A08	1	No	Joel Boone
1199427	NBC-R4AC/0,5-94L/R4AC	\$37.06	A08	1	No	Joel Boone
1199426	NBC-R4AC/1,0-94L/R4AC	\$39.79	A08	1	No	Joel Boone
1199425	NBC-R4AC/2,0-94L/R4AC	\$45.47	A08	1	No	Joel Boone
1199424	NBC-R4AC/3,0-94L/R4AC	\$51.65	A08	1	No	Joel Boone
1199423	NBC-R4AC/5,0-94L/R4AC	\$62.66	A08	1	No	Joel Boone
1199421	NBC-R4AC/10,0-94L/R4AC	\$91.14	A08	1	No	Joel Boone
1199420	NBC-R4AC/15,0-94L/R4AC	\$119.75	A08	1	No	Joel Boone
1199418	NBC-R4AC/20,0-94L/R4AC	\$147.85	A08	1	No	Joel Boone

Contact information:

Yogi Patel
 Product Marketing Specialist
 Industrial Field Connectivity (IFC) - Network Cabling
 Phoenix Contact USA, Inc.
 Tel: 800-888-7388 x3951
 Mobile: 717-319-7058
ypatel@phoenixcontact.com

Joel Boone
 Product Marketing Manager
 Field Device Connectors (FDC)
 Phoenix Contact USA, Inc.
 Tel: 800-888-7388 x3213
 Mobile: 717-315-7007
jboone@phoenixcontact.com



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© PHOENIX CONTACT
 P. O. Box 4100, Harrisburg, PA 17111-0100
 Phone: 717-944-1300 | Fax: 717-944-1625 Technical Service: 800-322-3225
 E-mail: info@phoenixcon.com
 Website: www.phoenixcontact.com

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