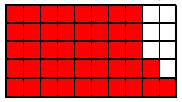
Quick Select Table: XPCS Conduit

Performance Index (Min. → Max.)

- Ductility
- Fatigue Reverse Bending
- Compression Resistance
- Low Temperature
- Weathering Resistance



System Temperature Ratings:
General: -50 to +95°C (-58 to +194°F)

System Ingress Ratings:
IEC Ingress: IP66, IP67, IP68
NEMA Ingress: Type 4, 4X, 12

XPCS Non-Metallic Conduit References:
Technical Data Sheet: TDS: XPCS - 16160-13
Chemical Resistance Guide: Contact Tech Support
IEC/EN 61386-1, -23 EU DoC: Contact Tech Support

PMAFix Fitting References:
Technical Data Sheet: TDS: BVND-N - 23008-05 (Straight)
Chemical Resistance Guide: Contact Tech Support
UL 1696 UL File: E80294
CSA C22.2 No. 227.3-05 CSA File: LL 88703
IEC/EN 61386-1, -23 EU DoC: Contact Tech Support

Typical Applications: XPCS conduit is Halogen Free and Fire Safe, ideal for use in enclosed public spaces, good impact strength, low temperatures and very good UV performance in outdoor applications

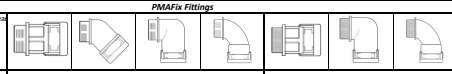
Non-metallic Conduit

Material Polyamide PA6
Color: Black outer, Green Inner, gray opional
Fine (T) and Coarse (G) profiles

Trade Size Reference				Carton [2]		Profile	Technical Data						Fire Safety Approvals		
UL	NW	Metric					Inside Diameter		Outside Diameter		Static Bend Rad.				
Inch	mm	mm	Part No. [1]	Feet	Meters	T or G	Inch	mm	Inch	mm	Inch	mm	NFPA	ASTM 1354	Bombardier
5/16"	10	12	XPCST-10BG.50	165	50	G Coarse	0.39	9.8	0.5	12.8	0.8	20.0	NFPA 130	ASTM E162, E163	SMP 800-C
3/8"	12	16	XPCST-12BG.50	165	50	G Coarse	0.48	12.1	0.6	15.6	1.0	25.0	NFPA 130	ASTM E162, E163	SMP 800-C
1/2"	17	20	XPCSG-17BG.50	165	50	G Coarse	0.65	16.5	0.8	21.1	1.4	35.0	NFPA 130	ASTM E162, E163	SMP 800-C
3/4"	23	25	XPCSG-23BG.50	165	50	G Coarse	0.86	21.9	1.1	28.4	1.8	45.0	NFPA 130	ASTM E162, E163	SMP 800-C
1"	29	32	XPCSG-29BG.50	165	50	G Coarse	1.09	27.7	1.4	34.5	2.2	55.0	NFPA 130	ASTM E162, E163	SMP 800-C
1-1/4"	36	40	XPCSG-36BG.30	100	30	G Coarse	1.44	36.6	1.7	42.4	2.6	65.0	NFPA 130	ASTM E162, E163	SMP 800-C
1-1/2"	48	50	XPCSG-48BG.30	100	30	G Coarse	1.87	47.5	2.1	54.5	3.3	85.0	NFPA 130	ASTM E162, E163	SMP 800-C
2"	56	68	XPCSG-56BG.30	100	30	G Coarse	2.23	56.7	2.7	67.5	4.3	110.0	NFPA 130	ASTM E162, E163	SMP 800-C
2-1/2"	70	80	XPCSG-70BG.10	30	10	G Coarse	2.66	67.5	3.1	79.6	5.1	130.0	NFPA 130	ASTM E162, E163	SMP 800-C
3-1/2"	95	106	XPCSG-95BG.10	30	10	G Coarse	3.61	91.6	4.2	107.0	6.7	170.0	NFPA 130	ASTM E162, E163	SMP 800-C

PMAFix Fittings

Polyamide bodies and threa
Polyamide bodies and nickel plated brass insert threads



Type		Non-metallic Thread (IP66, NEMA 4/4X)				Metallic Thread (IP68, NEMA 4/4X/6)		
Std.	Thread	Straight Part No.	45° Part No.	90° (Hard) Part No.	90° (Curved) Part No.	Straight Part No.	90° (Hard) Part No.	90° (Curved) Part No.
NPT	---							
ISO	M12	BVND-M120GT	BVAD-M120GT	BVWD-M160GT	BVBD-M160GT	NVNV-M120-5	NVWV-M120-5	
NPT	1/2"	BVND-N022GT	BVAD-N022GT	BVWD-N022GT		NVNV-N022		
ISO	M16	BVND-M162GT	BVAD-M162GT	BVWD-M162GT	BVBD-M162GT	NVNV-M162-5	NVWV-M162-5	
NPT	1/2"	BVND-N027GT	BVAD-N027GT	BVWD-N027GT		NVNV-N027		
ISO	M20	BVND-M207GT	BVAD-M207GT	BVWD-M207GT	BVBD-M207GT	NVNV-M207-6	NVWV-M207-6	NVBV-M207-6
NPT	3/4"	BVND-N043GT	BVAD-N043GT	BVWD-N043GT				
ISO	M25	BVND-M253GT	BVAD-M254GT	BVWD-M253GT	BVBD-M253GT	NVNV-M253-7	NVWV-M253-7	NVBV-M253-7
NPT	1"	BVND-N069GT	BVAD-N069GT	BVWD-N069GT				
ISO	M32	BVND-M329GT	BVAD-M329GT	BVWD-M329GT	BVBD-M329GT	NVNV-M329-8	NVWV-M329-8	NVBV-M329-8
NPT	1-1/4"	BVND-N076GT	BVAD-N076GT	BVWD-N076GT				
ISO	M40	BVND-M406GT	BVAD-M406GT	BVWD-M406GT	BVBD-M406GT	NVNV-M406-8	NVWV-M406-8	NVBV-M406-8
NPT	1-1/2"	BVND-N088GT	BVAD-N088GT	BVWD-N088GT		NVNV-N088		
NPT	2"	BVND-N098GT	BVAD-N098GT	BVWD-N098GT		NVNV-N098		
ISO	M50	BVND-M508GT	BVAD-M508GT	BVWD-M508GT	BVBD-M508GT	NVNV-M508-9	NVWV-M508-9	NVBV-M508-9
ISO	M63	BVND-M638GT	BVAD-M638GT		BVBD-M638GT	NVNV-M638-10	NVWV-M508-10	NVBV-M638-10
NPT	2"	BGGV-56		BGDV-56				
ISO	---							
NPT	2-1/2"	BGGV-70		BGDV-70				
ISO	---							
NPT	3"	BGGV-95		BGDV-95				
ISO	---							

Accessories

Y Fitting		T Fitting		Trade Size Reducer		Conduit Splices		Lock Nuts			
IP66 (NEMA 4/4X) Part No.	IP68 (NEMA 4/4X) Part No.	IP66 (NEMA 4/4X) Part No.	IP68 (NEMA 4/4X) Part No.	IP66 (NEMA 4/4X) Part No.	IP68 (NEMA 4/4X) Part No.	IP66 (NEMA 4/4X) Part No.	IP68 (NEMA 4/4X) Part No.	NP Brass Part No.	Nylon Part No.	Steel Part No.	Support Part No.
BVYD-100707GT	BVYR-100707	BVTD-101010GT	BVTR-101010								BFH-10-0
									BMN-M12		
BVYD-121010GT	BVYR-121010	BVTD-121212GT	BVTR-121212	BAVD-12/10GT	BAVR-12/10	BVSGD-1212GT	BVSGR-1212	LNB/050		140	BFH-12-0
								GMM-M16	BMN-M16		
BVYD-171212GT	BVYR-171212	BVTD-171717GT	BVTR-171717	BAVD-17/12GT	BAVR-17/12	BVSGD-1717GT	BVSGR-1717	LNB/050		141	BFH-17-0
								GMM-M20	BMN-M20		
BVYD-231717GT	BVYR-231717	BVTD-232323GT	BVTR-232323	BAVD-23/17GT	BAVR-23/17	BVSGD-2323GT	BVSGR-2323	LNB/075		142	BFH-23-0
								GMM-M25	BMN-M25		
BVYD-292323GT	BVYR292323	BVTD-292929 GT	BVTR-292929	BAVD-29/23GT	BAVR-29/23	BVSGD-2929GT	BVSGR-2929	LNB/100		143	BFH-29-0
								GMM-M32	BMN-M32		
BVYD-362929GT	BVYR-362929	BVTD-363636GT	BVTR-363636	BAVD-36/29GT	BAVR-36/29	BVSGD-3636GT	BVSGR-3636	LNB-125		144	BFH-36-0
								GMM-M40	BMN-M40		
BVYD-483636GT	BVYR-483636	BVTD-484848GT	BVTR-484848	BAVD-48/36GT	BAVR-48/36	BVSGD-4848GT	BVSGR-4848	LNB/150		145	BFH-48-0
								LNB/200		145	
								GMM-M50	BMN-M50		
								GMM-M63	BMN-M63		

Attn: PMA Quick Select Tables are intended to assist users with recommended component selection for Non-metallic Type C Cable Protection System solutions. Final component selection is the responsibility of the user based on actual application, standards and local electrical code requirements.
The information in this QTS is regularly updated and is subject to change at the discretion of T&B/ABB. Go to https://library.abb.com/ for latest document revision.

Notes:
1) RED Part Numbers are priority stock items, available for immediate delivery.
2) Packaging lengths available in cartons, standard reels and bulk reels, see publication XPCS - 16160-13 for details
3)
4)

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